

FIG. 1

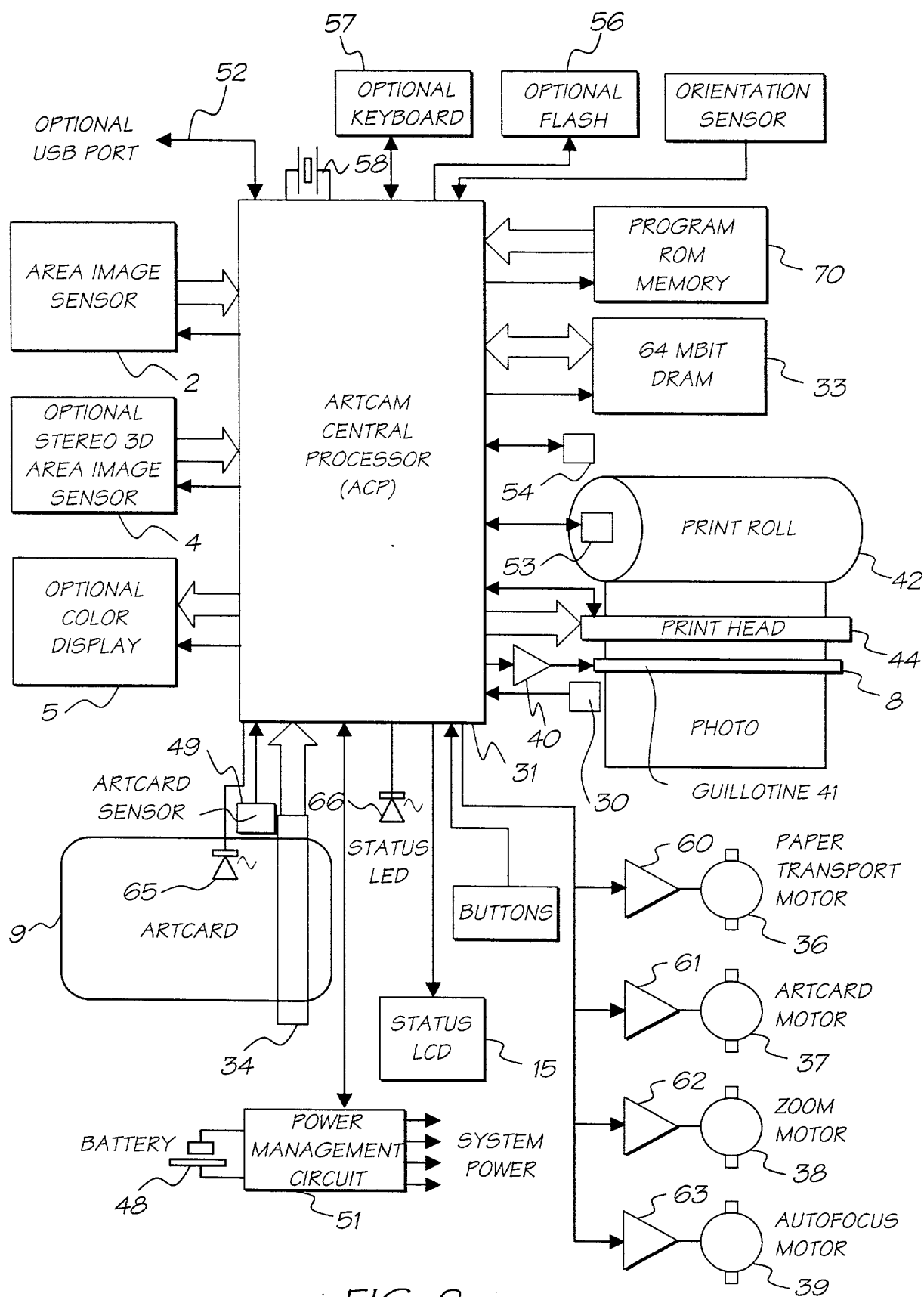


FIG. 2

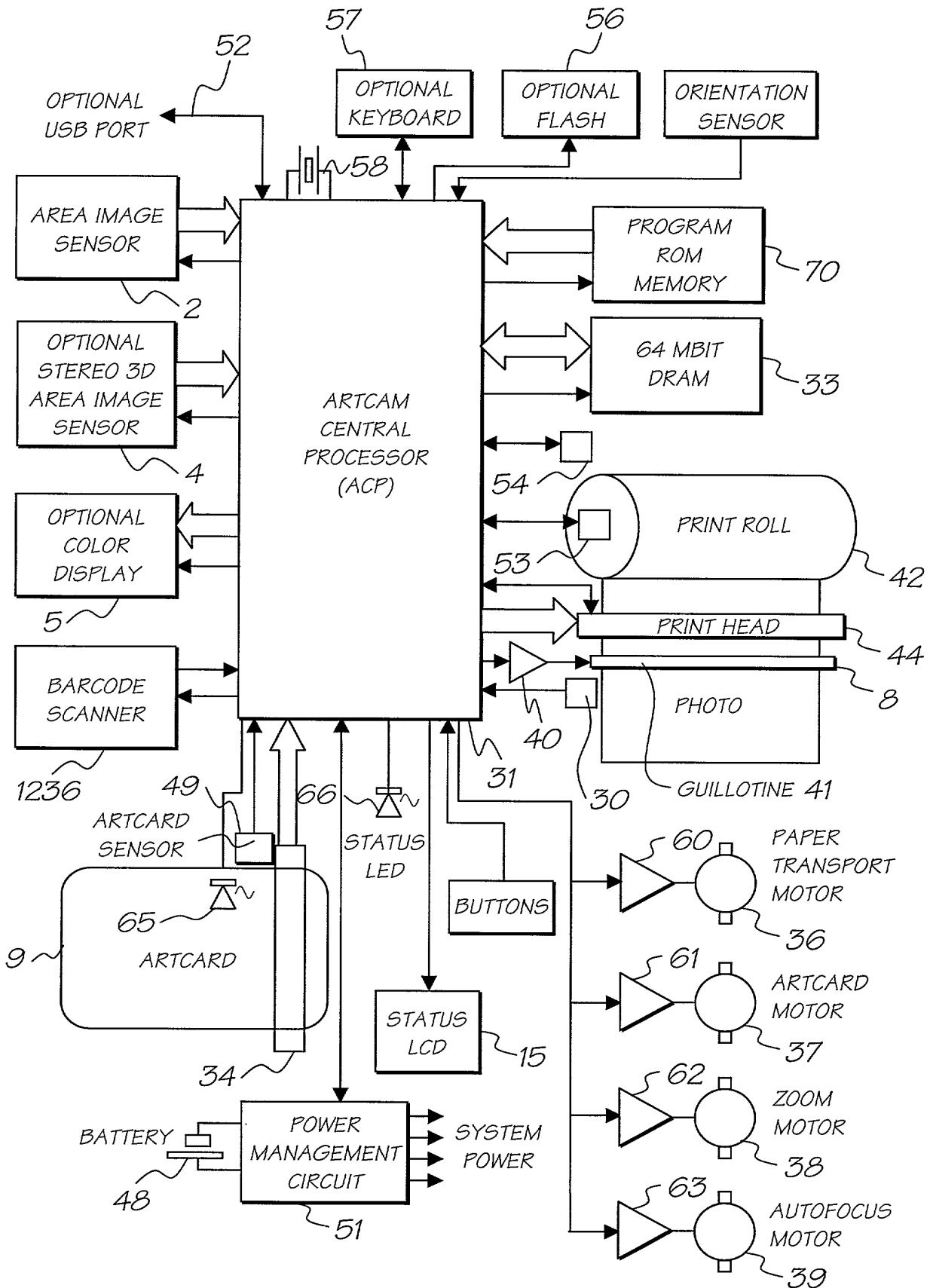


FIG. 2A

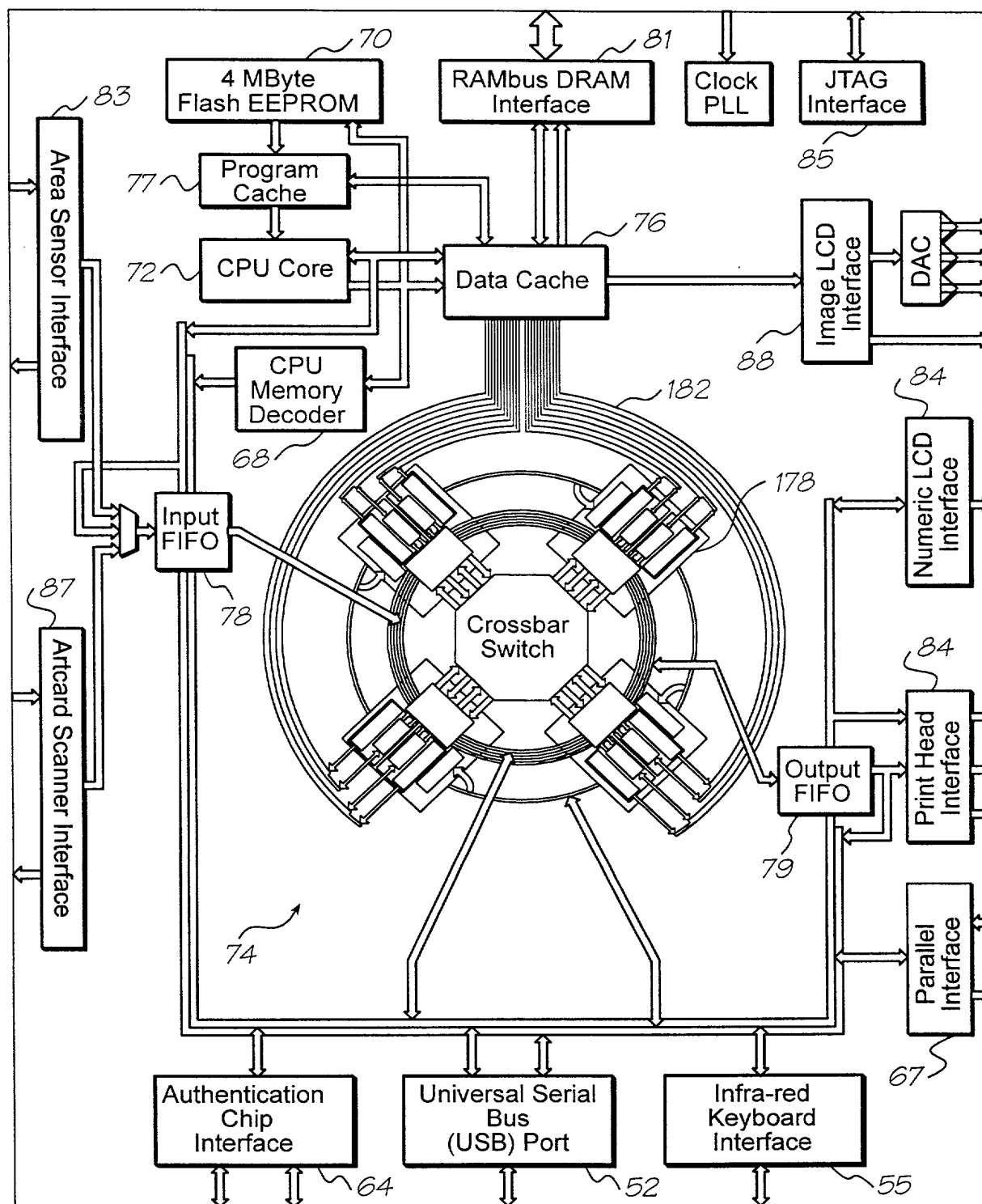


FIG. 3





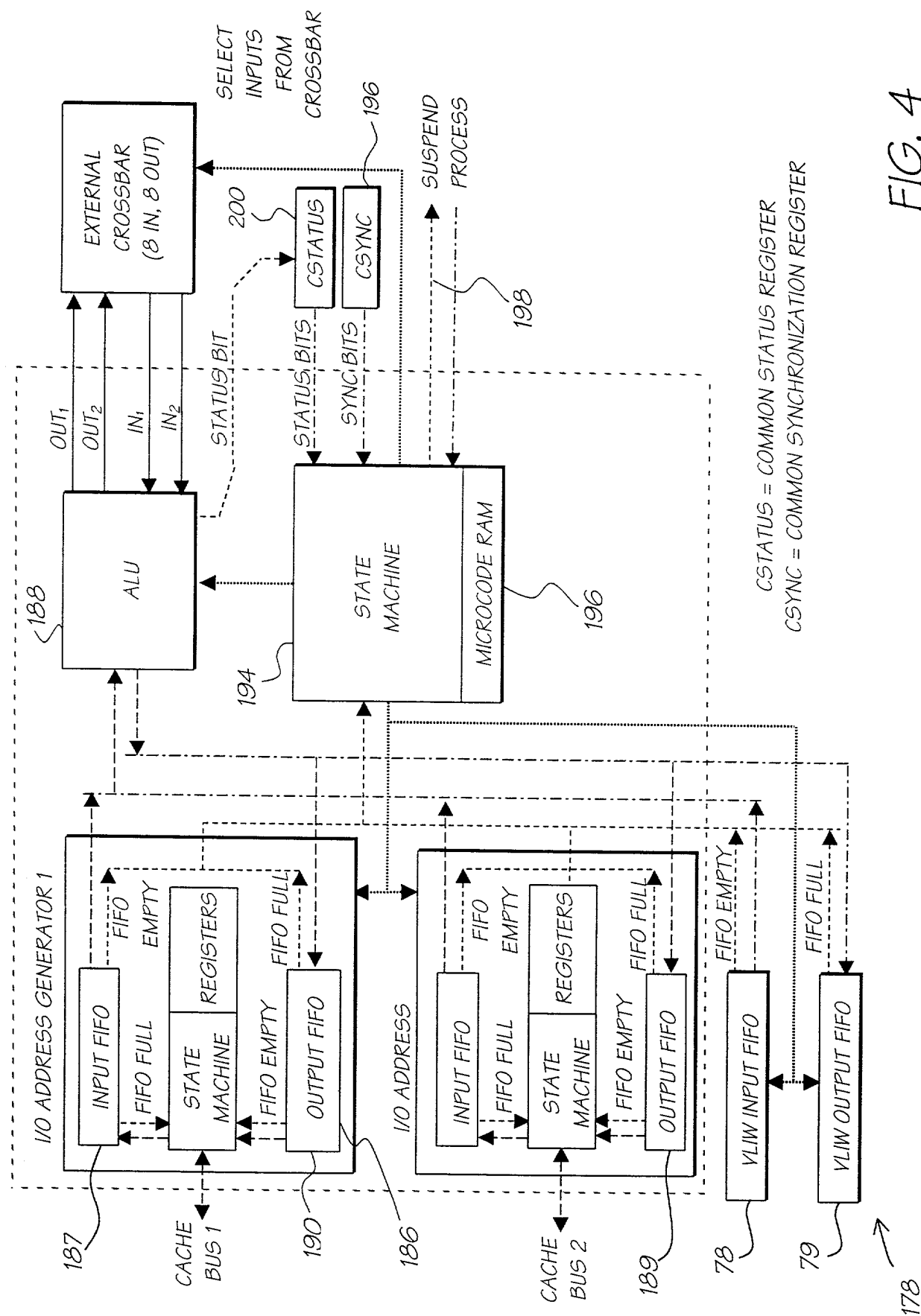


FIG. 4

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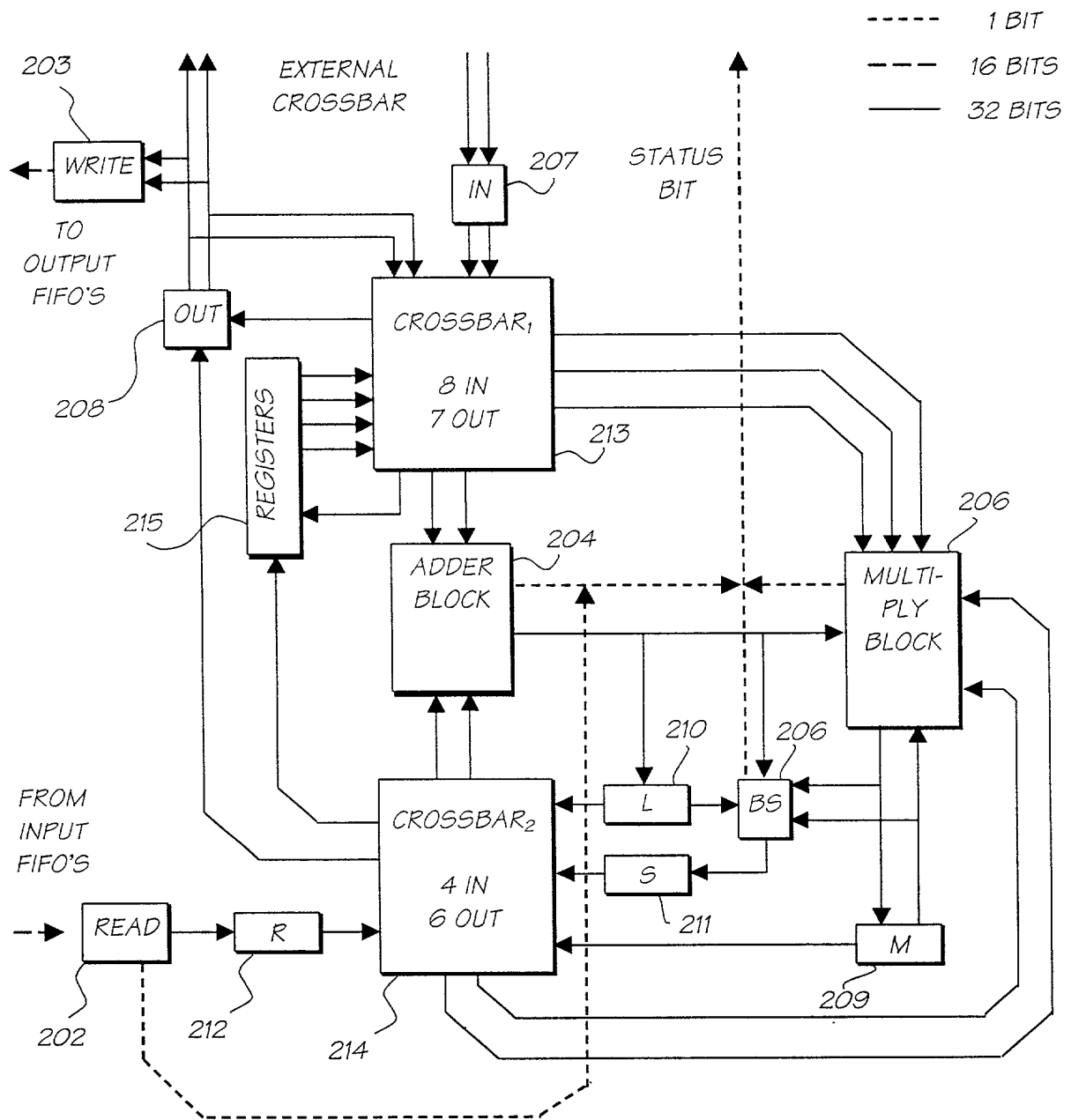


FIG. 5



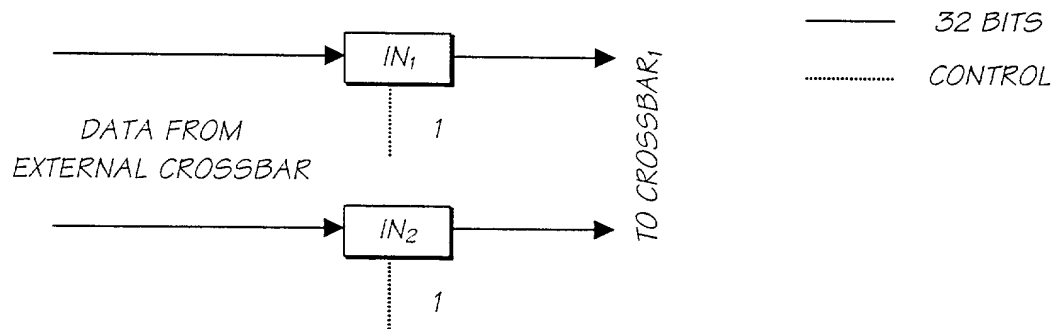


FIG. 6

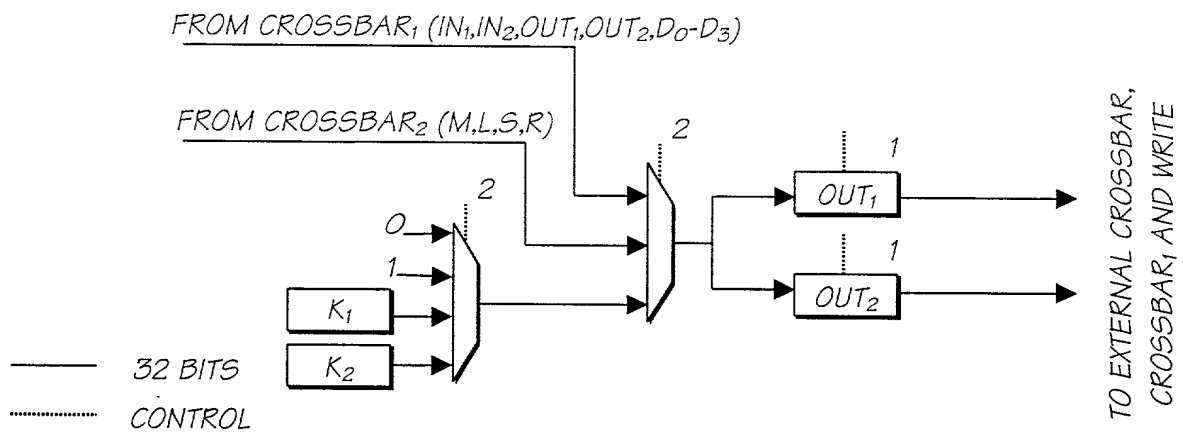


FIG. 7

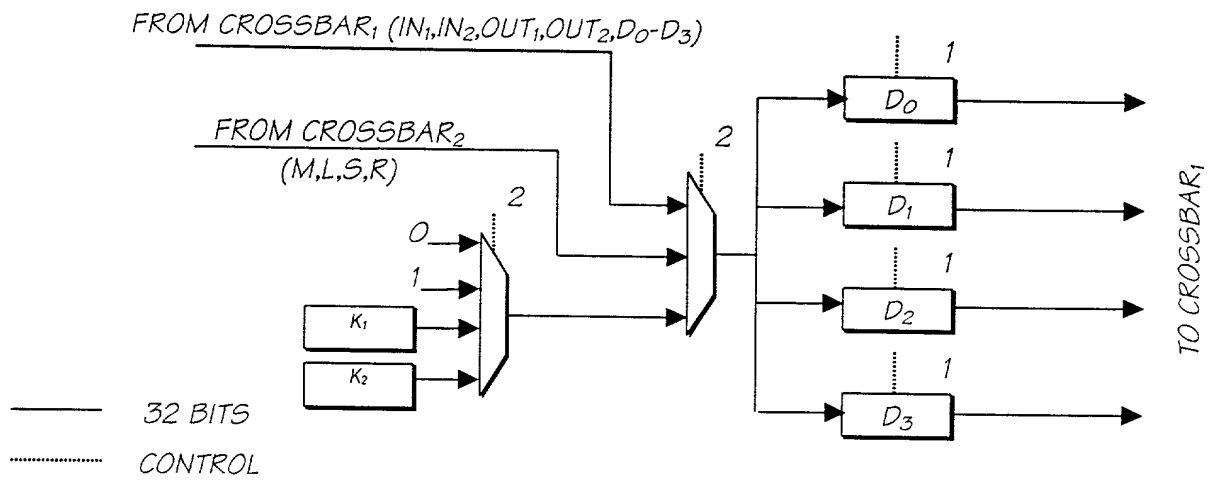


FIG. 8

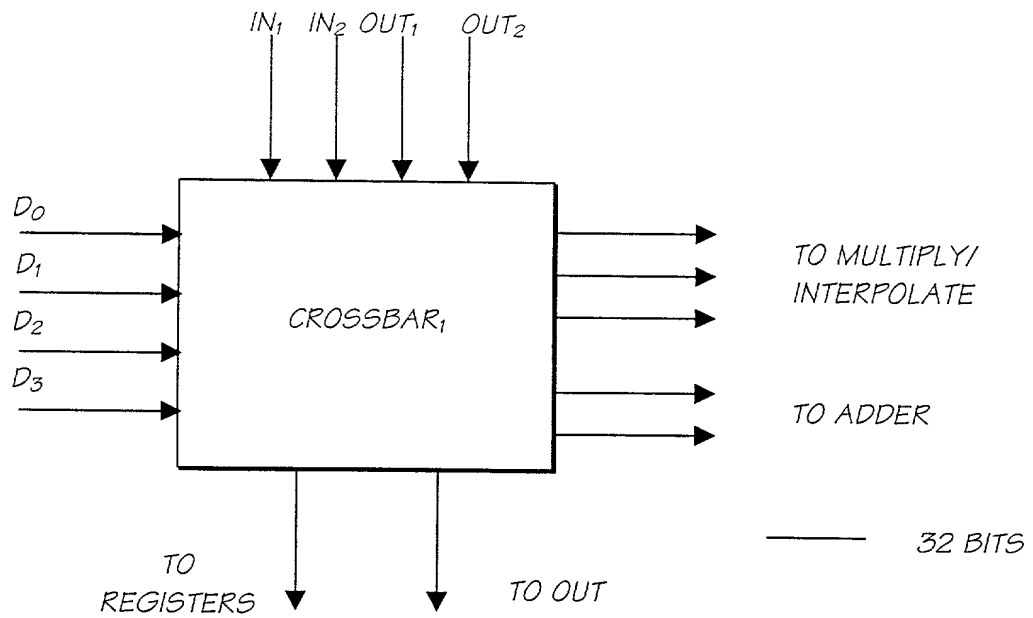


FIG. 9

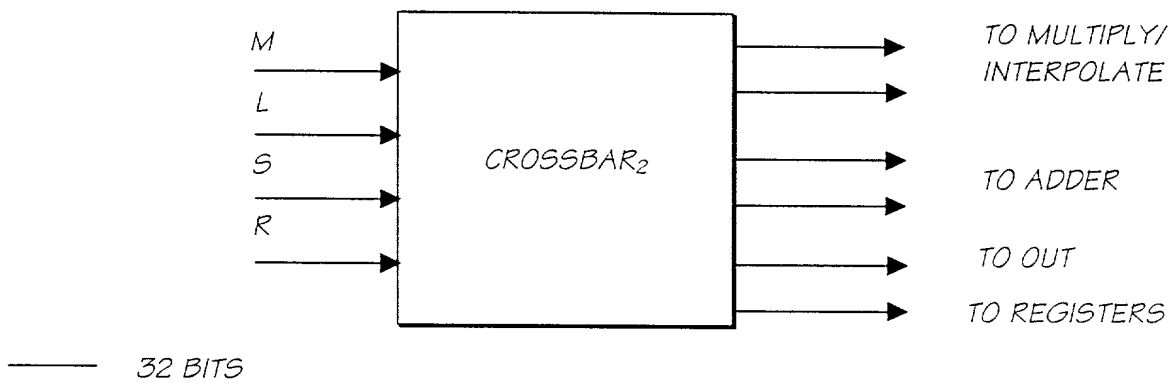


FIG. 10

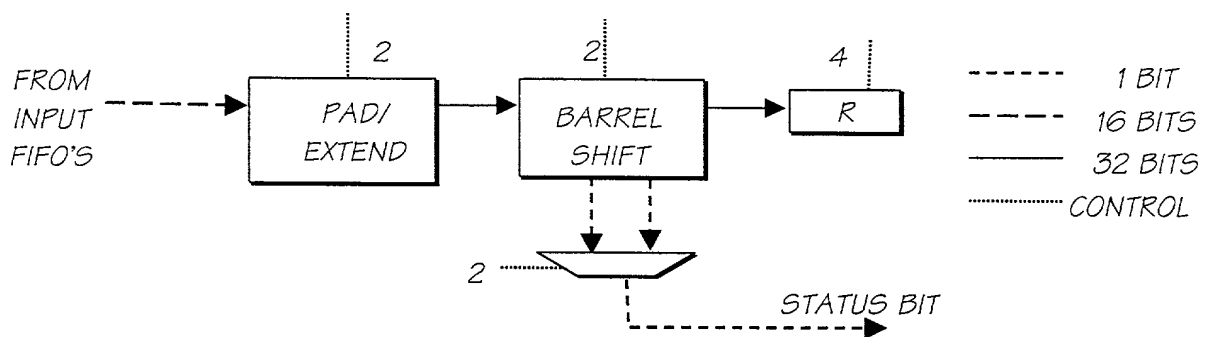


FIG. 11

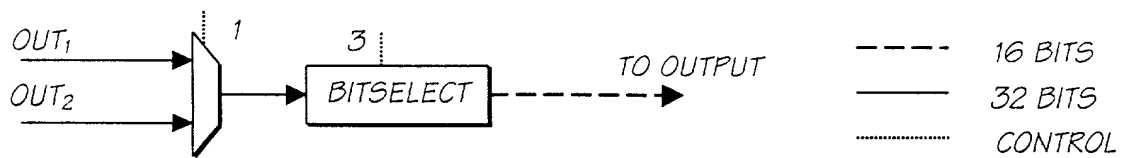


FIG. 12

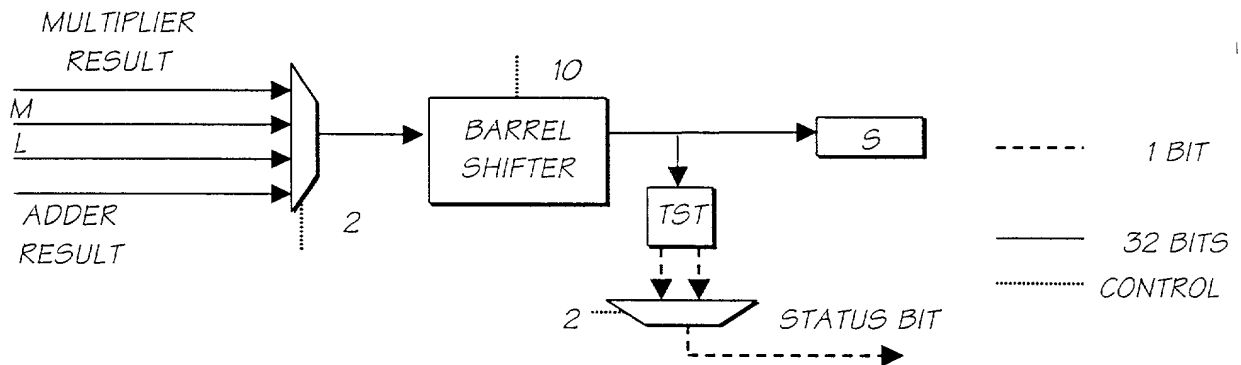


FIG. 13

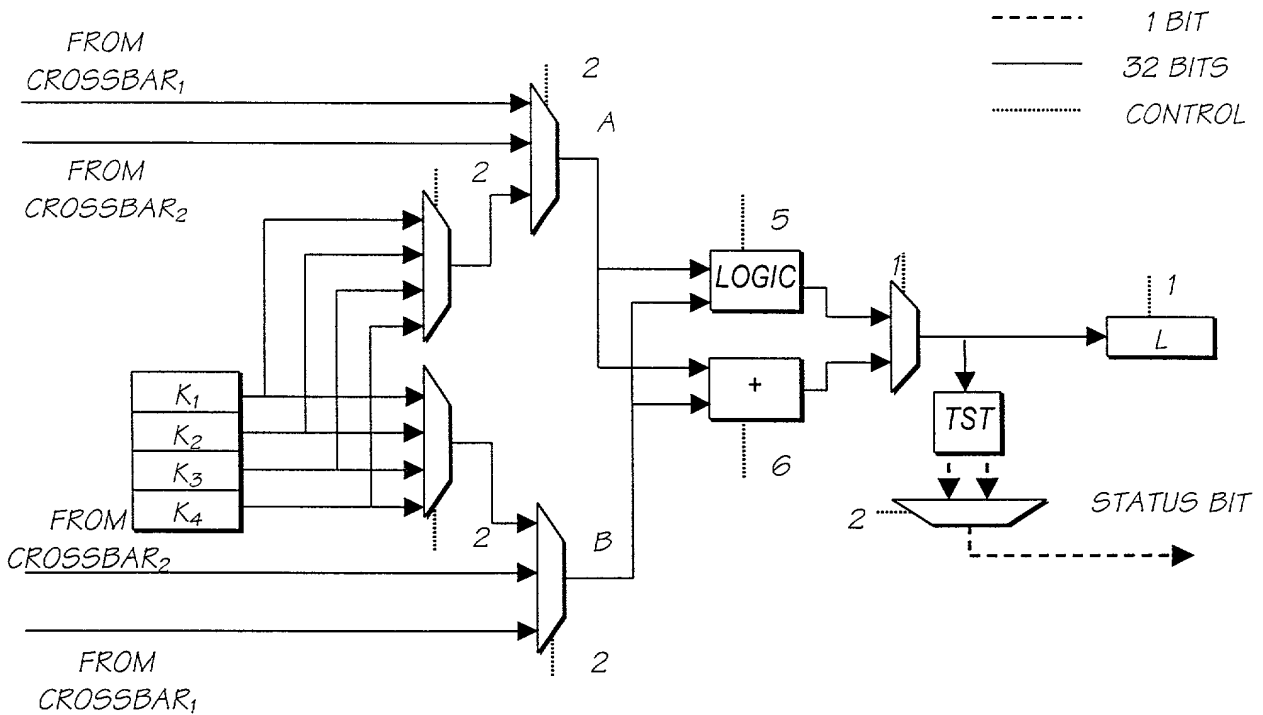


FIG. 14

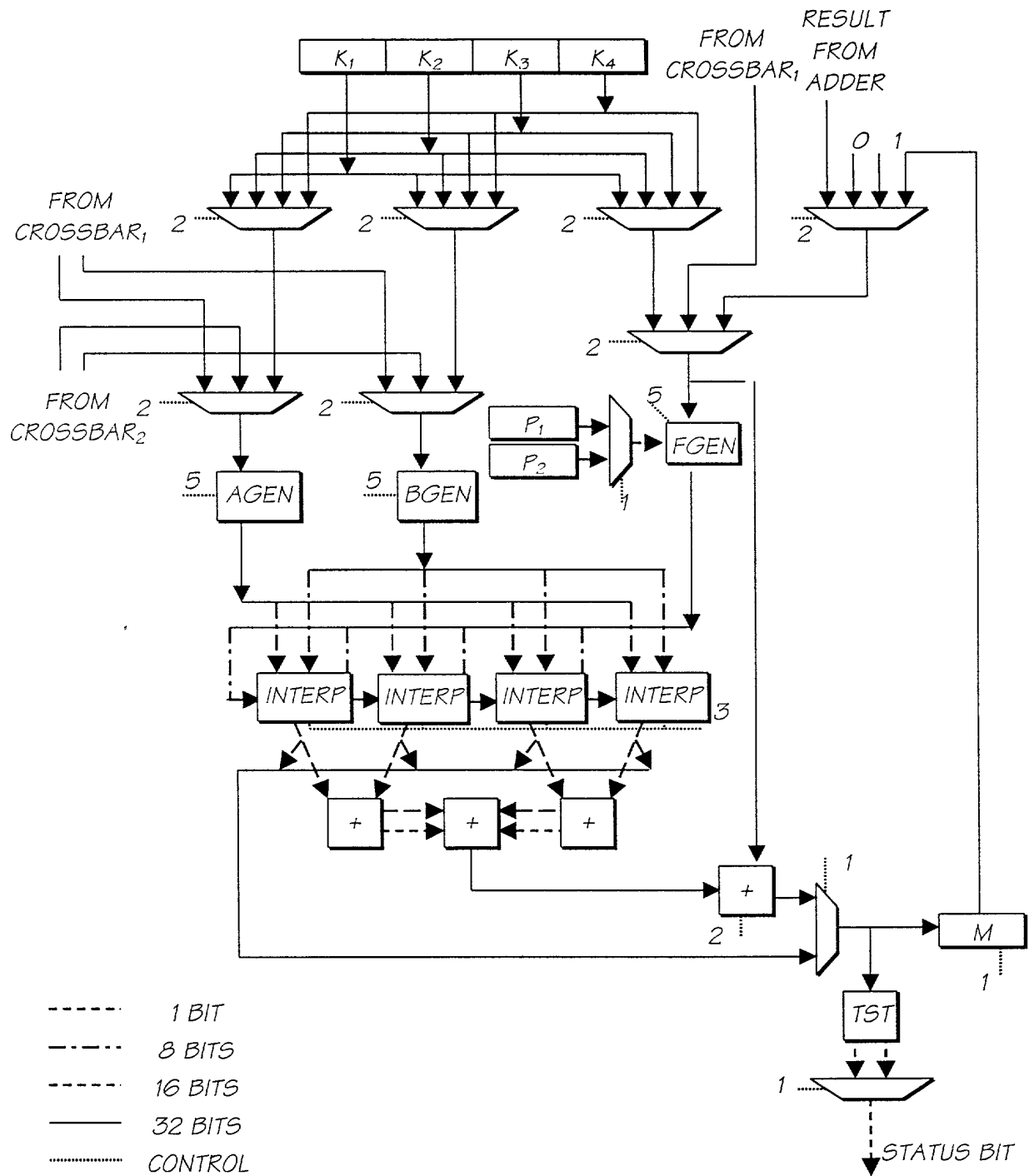


FIG. 15

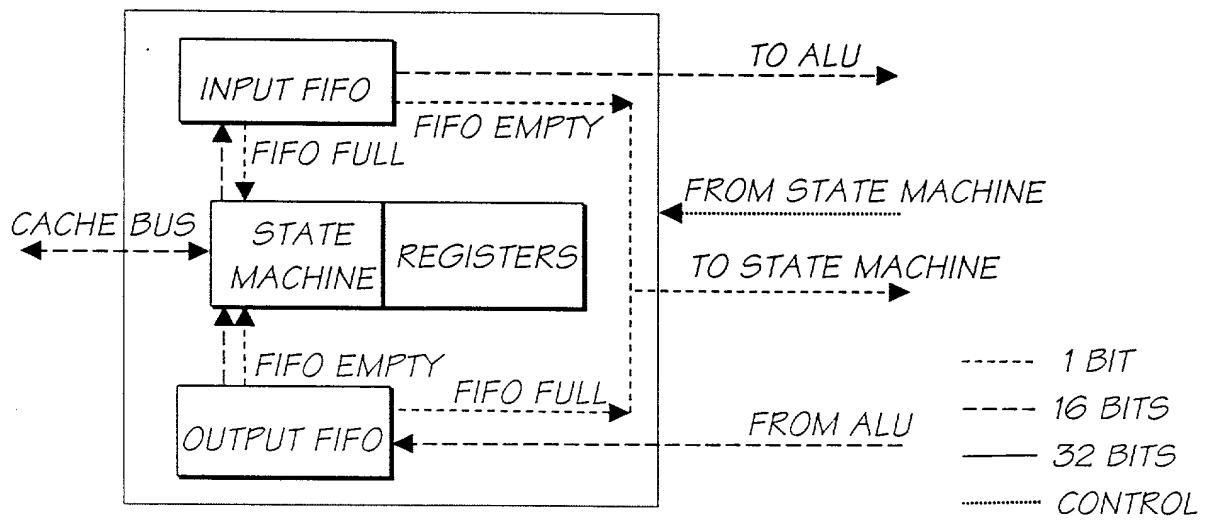


FIG. 16

ORDER OF PIXELS PRESENTED BY A SEQUENTIAL READ ITERATOR  
ON A 4 X 2 IMAGE WITH PADDING.

0	1	2	3	
4	5	6	7	

FIG. 17

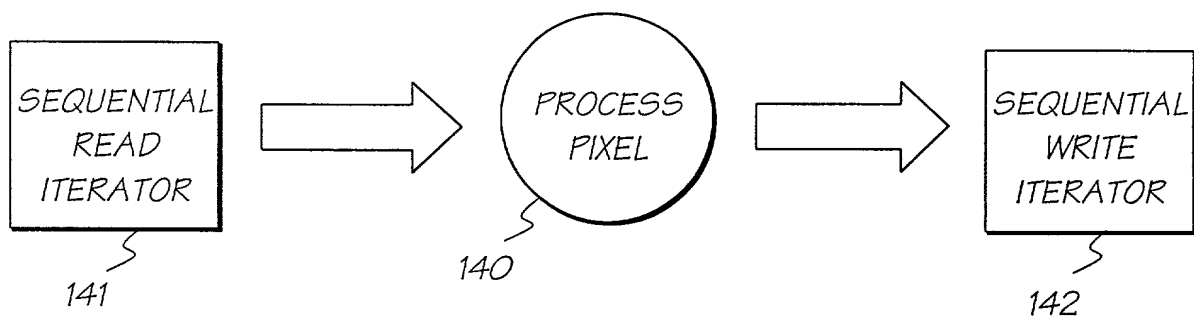
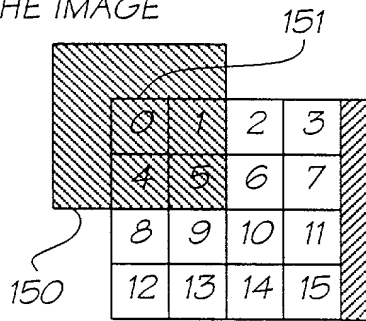


FIG. 18

A 3x3 BOX VIEW TRAVERSES THE PIXELS IN ORDER: 0, 1, 2, 3, 4, 5, 6, 7, 8  
ETC, PLACING A 3x3 BOX CENTERED OVER EACH PIXEL...

3x3 BOX VIEW OF FIRST  
PIXEL IN IMAGE = 9 PIXELS,  
5 OF WHICH ARE OUTSIDE  
THE IMAGE

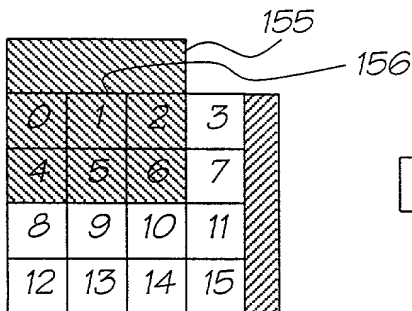


FIRST 9 PIXELS FROM THE BOX  
READ ITERATOR:

IF DUPLICATION OF EDGE PIXELS IS  
ON: 0, 0, 0, 0, 0, 1, 4, 4, 5

IF DUPLICATION OF EDGE PIXELS IS  
OFF: V, V, V, V, V, 0, 1, V, 4, 5  
WHERE V IS CONSTANTPIXEL  
REGISTER VALUE REPRESENTING  
"OUTSIDE THE IMAGE"

3x3 BOX VIEW OF  
SECOND PIXEL IN IMAGE  
= 9 PIXELS,  
3 OF WHICH ARE  
OUTSIDE THE IMAGE



SECOND 9 PIXELS FROM THE BOX  
READ ITERATOR:

IF DUPLICATION OF EDGE PIXELS  
IS ON: 0, 1, 2, 0, 1, 2, 4, 5, 6

IF DUPLICATION OF EDGE PIXELS  
IS OFF: V, V, V, 0, 1, 2, 4, 5, 6  
WHERE V IS CONSTANTPIXEL  
REGISTER VALUE REPRESENTING  
"OUTSIDE THE IMAGE"

FIG. 19

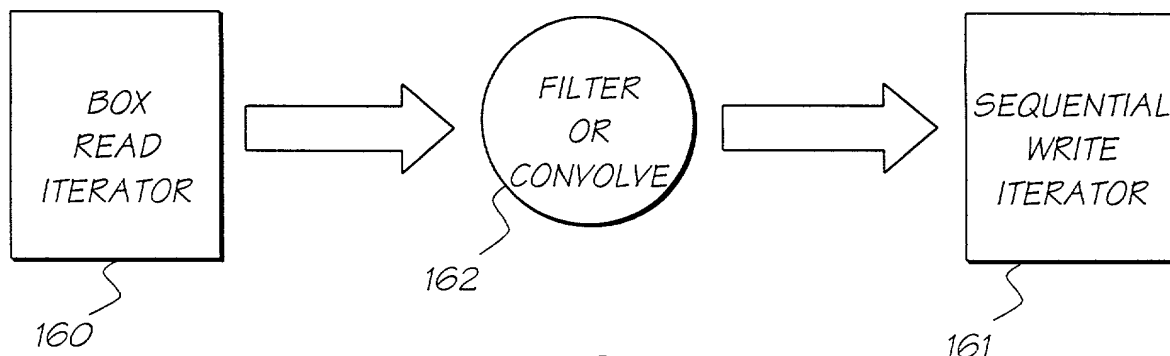
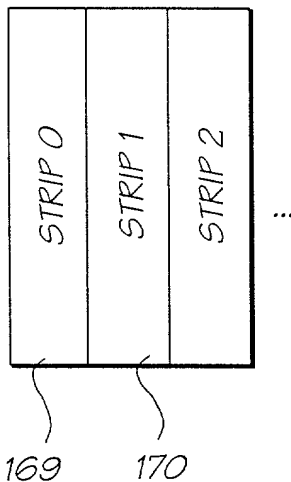
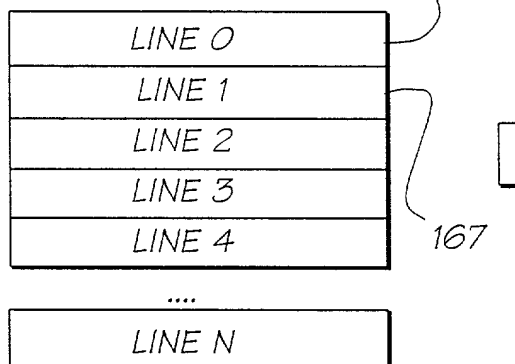


FIG. 20

IMAGE BROKEN INTO  
VERTICAL STRIPS,  
EACH STRIP IS 32  
PIXELS ACROSS



LINES ARE ACCESSED  
LINE 0 TO LINE N  
WITHIN A SINGLE STRIP.



PIXELS ARE ACCESSED  
PIXEL 0 - PIXEL 31  
WITHIN A SINGLE LINE

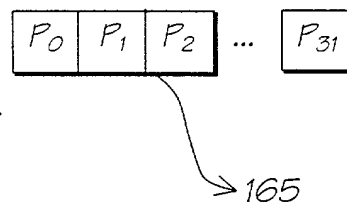


FIG. 21

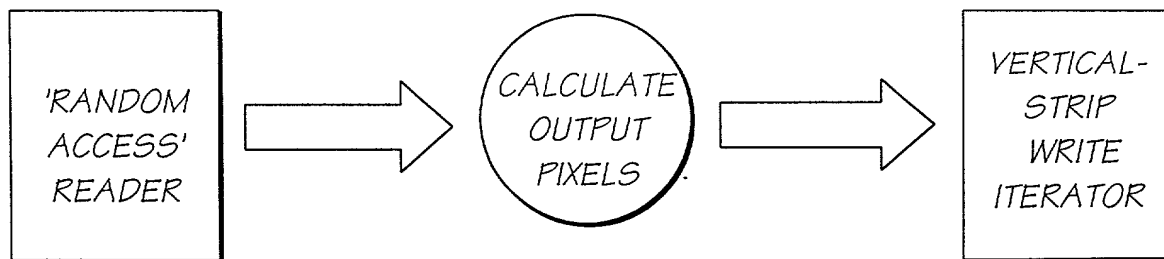


FIG. 22



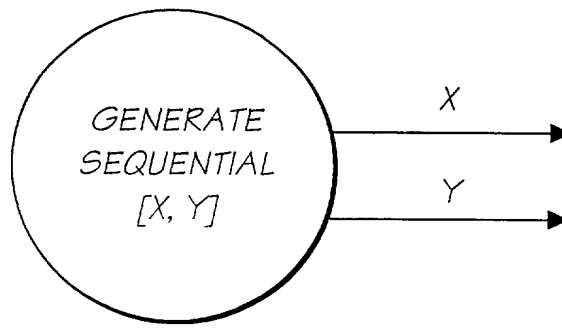


FIG. 23

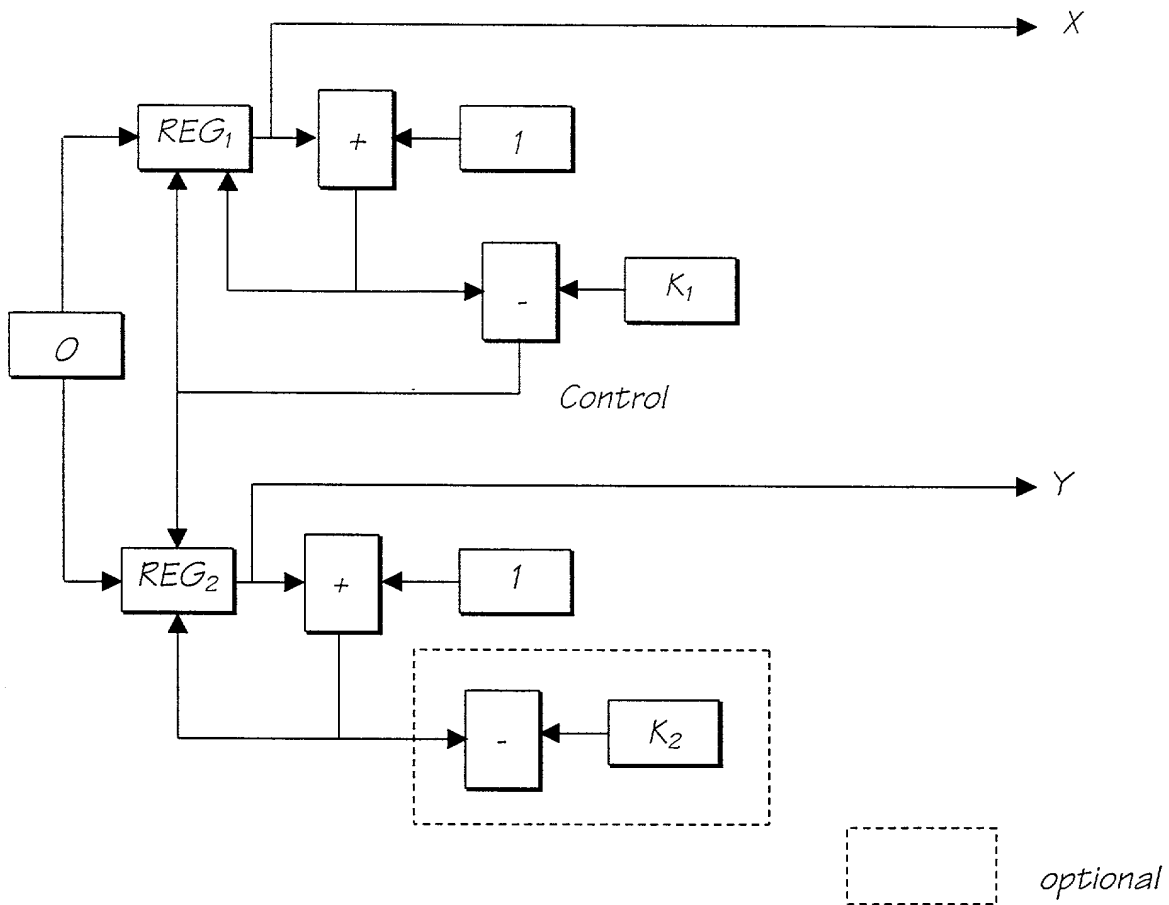


FIG. 24

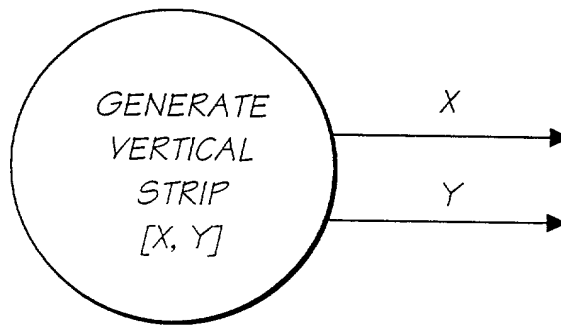


FIG. 25

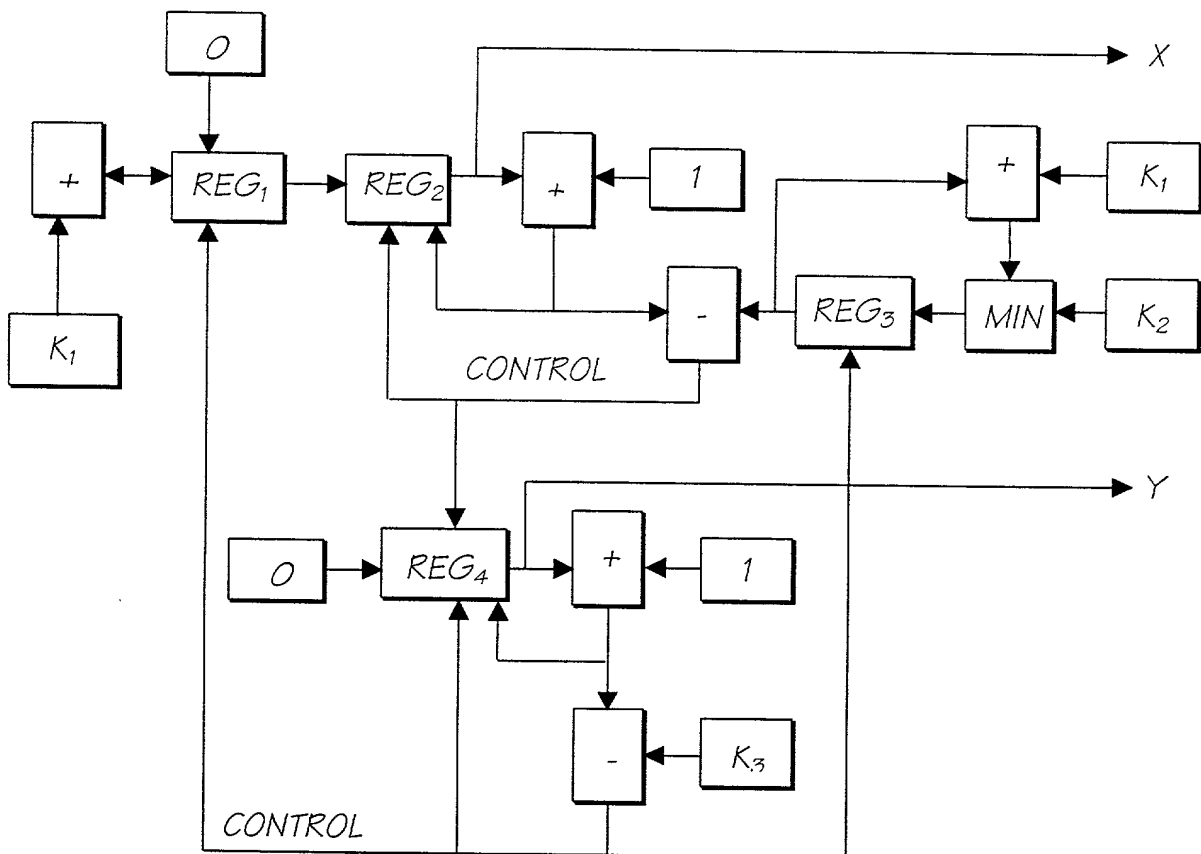
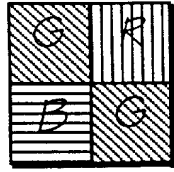


FIG. 26



2X2 PIXEL BLOCK FROM SENSOR

FIG. 27

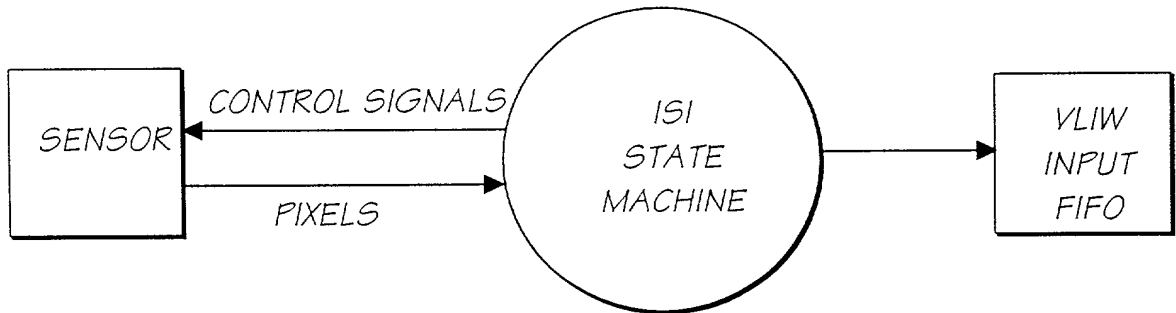


FIG. 28

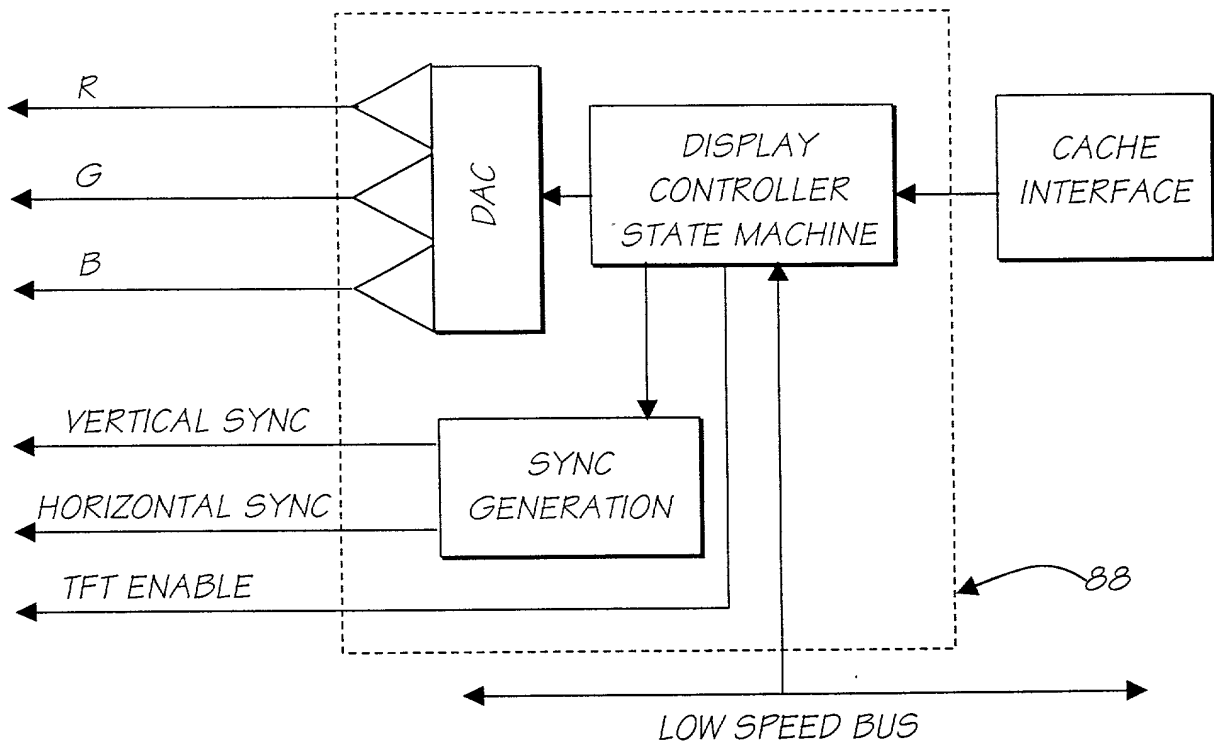
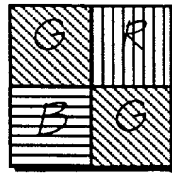


FIG. 29



2X2 PIXEL BLOCK FROM CCD

FIG. 30

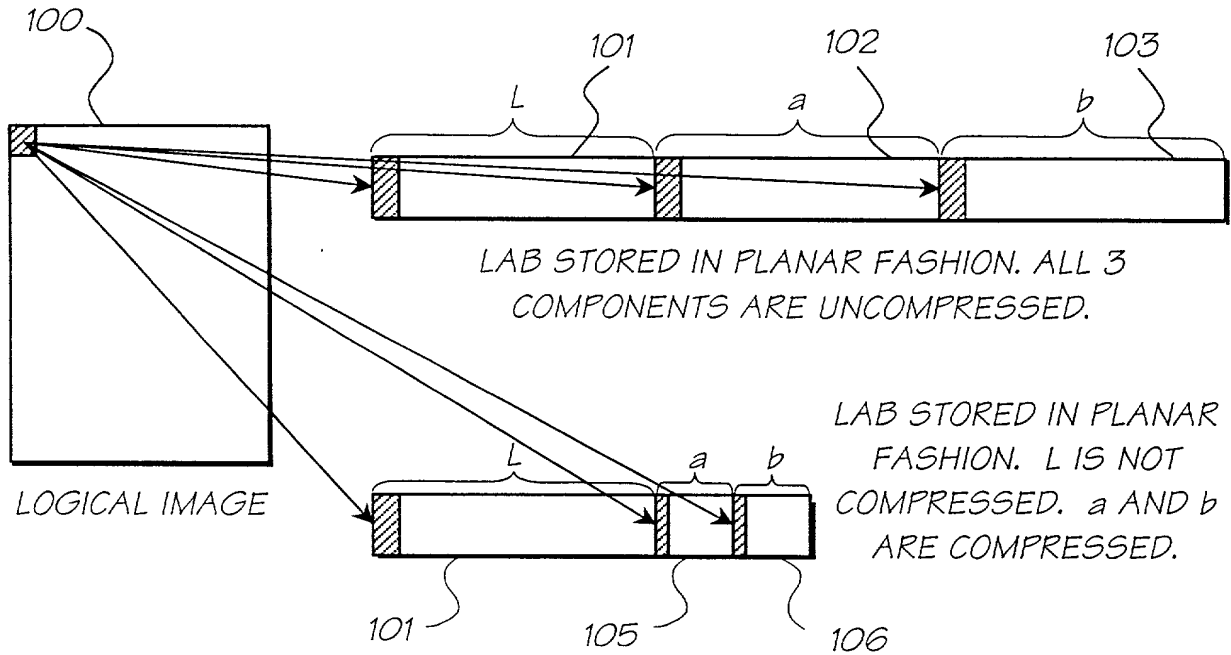


FIG. 31

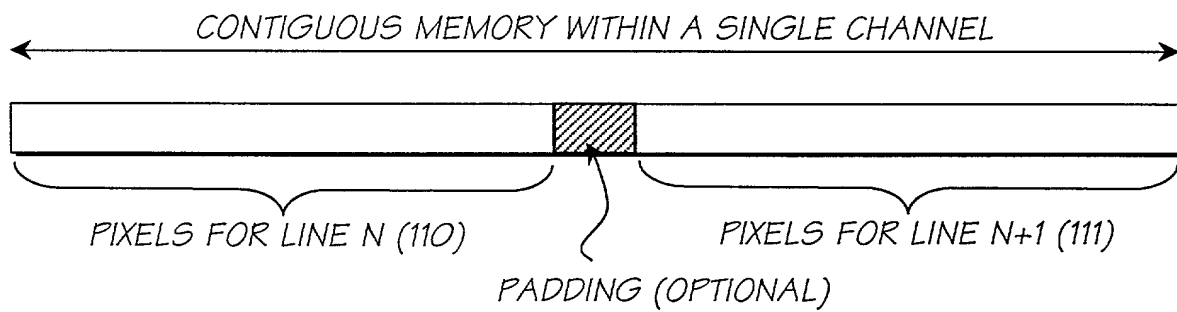


FIG. 32

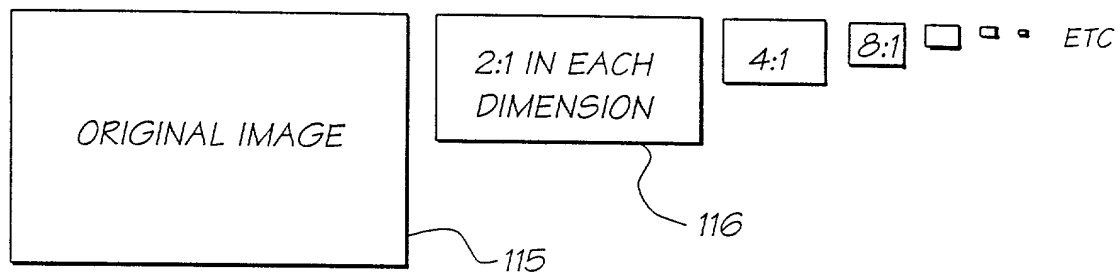


FIG. 33

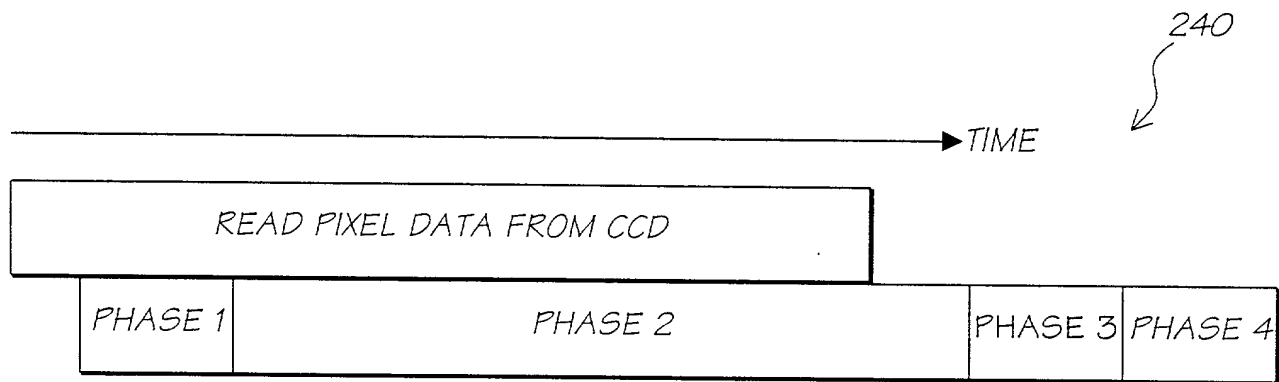


FIG. 34

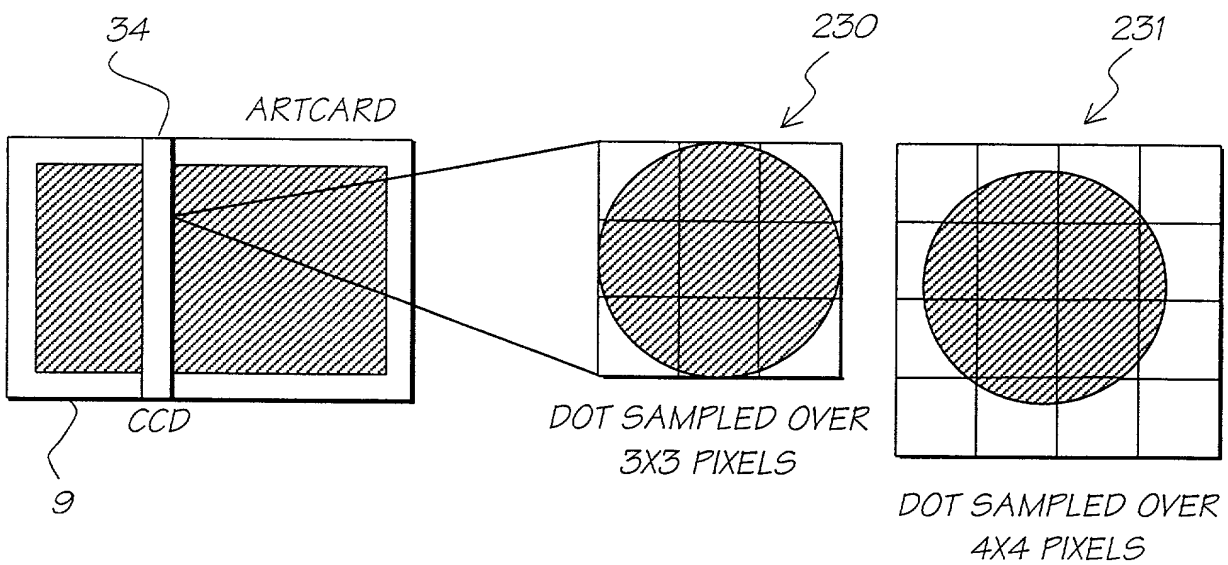


FIG. 35

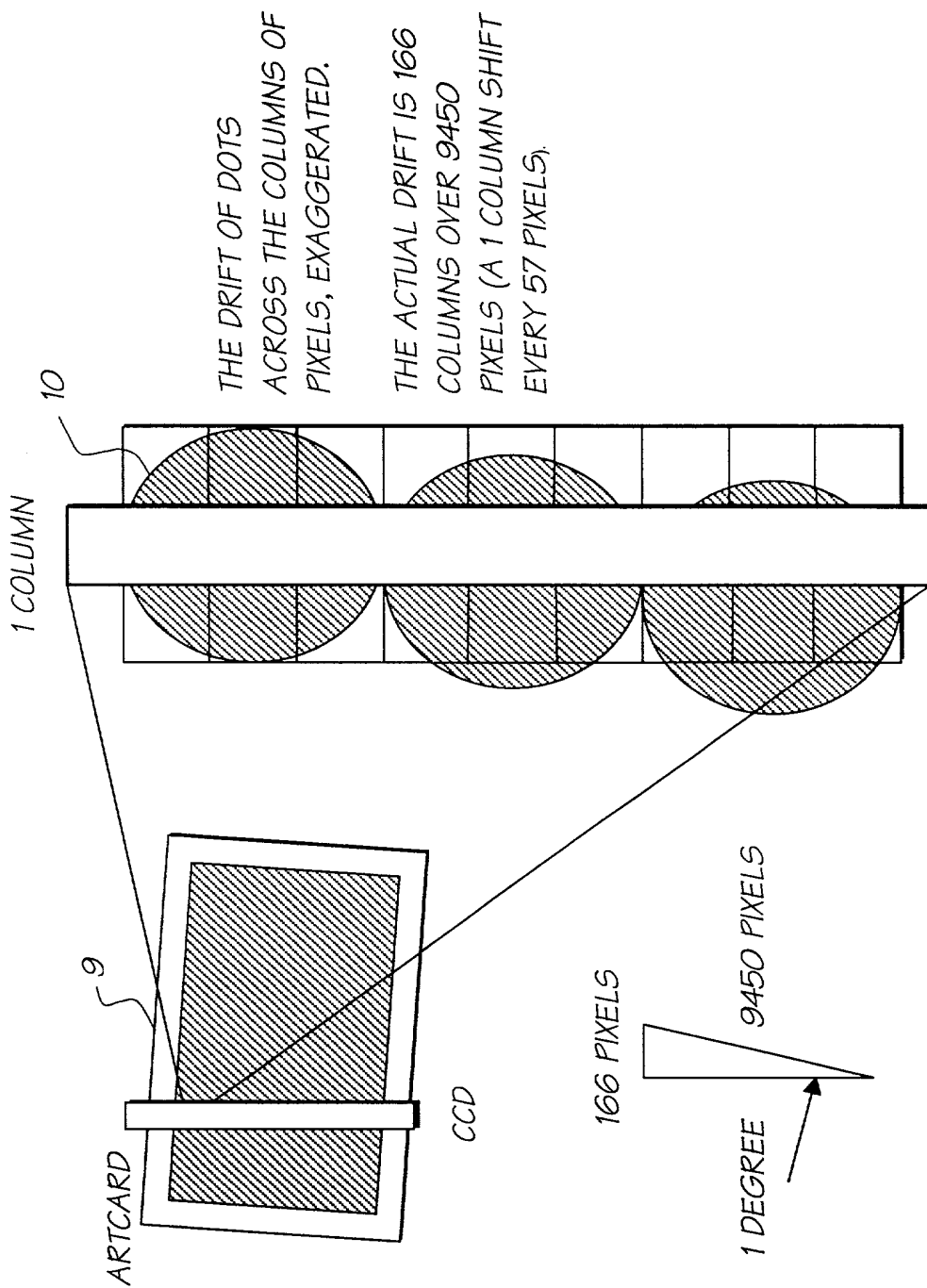


FIG. 36

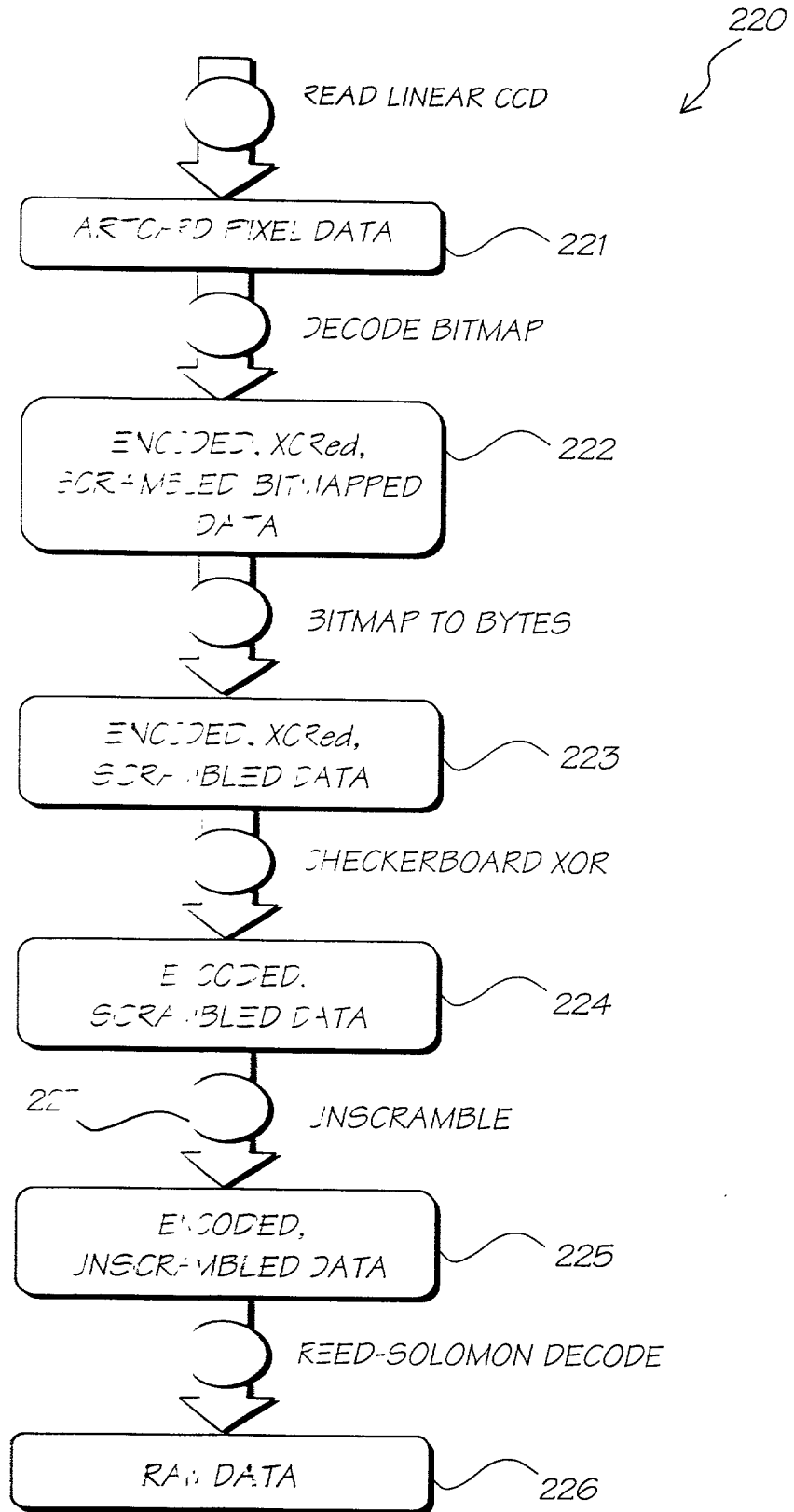


FIG. 37

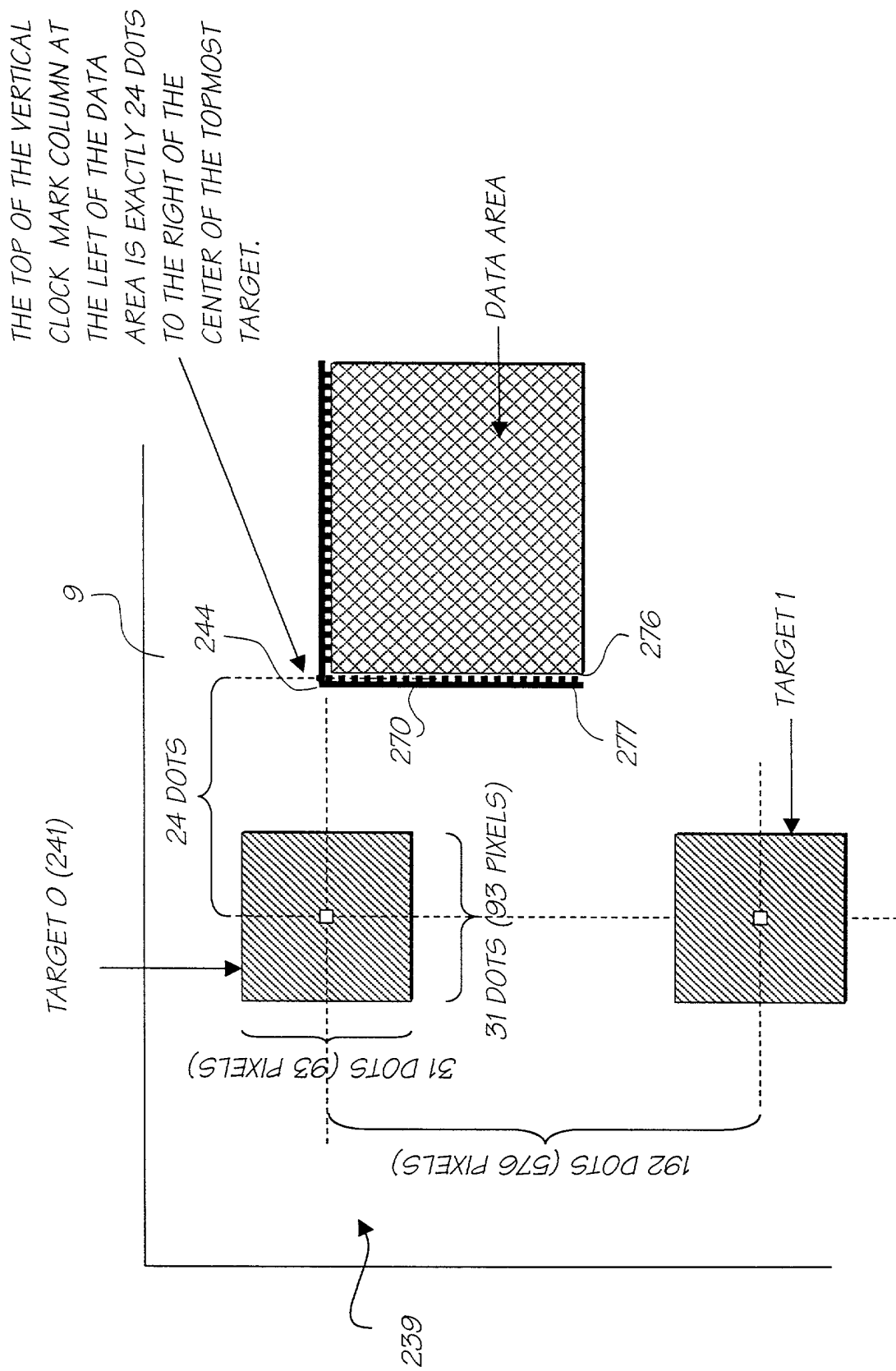


FIG. 38



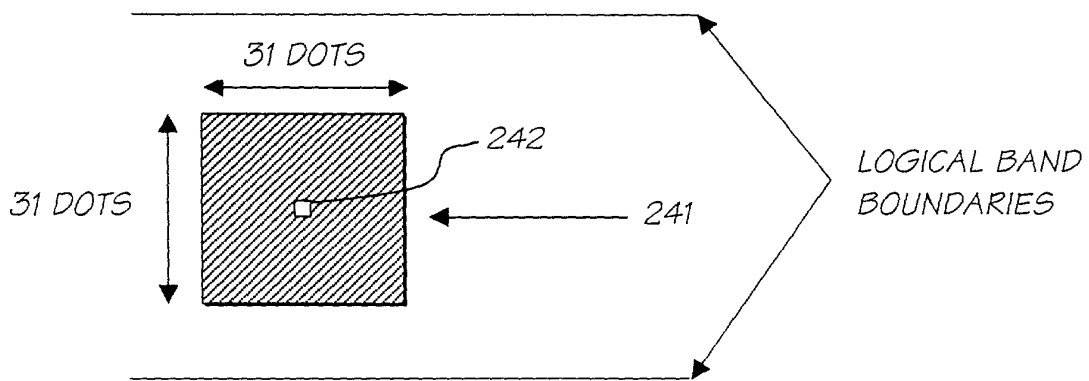


FIG. 39

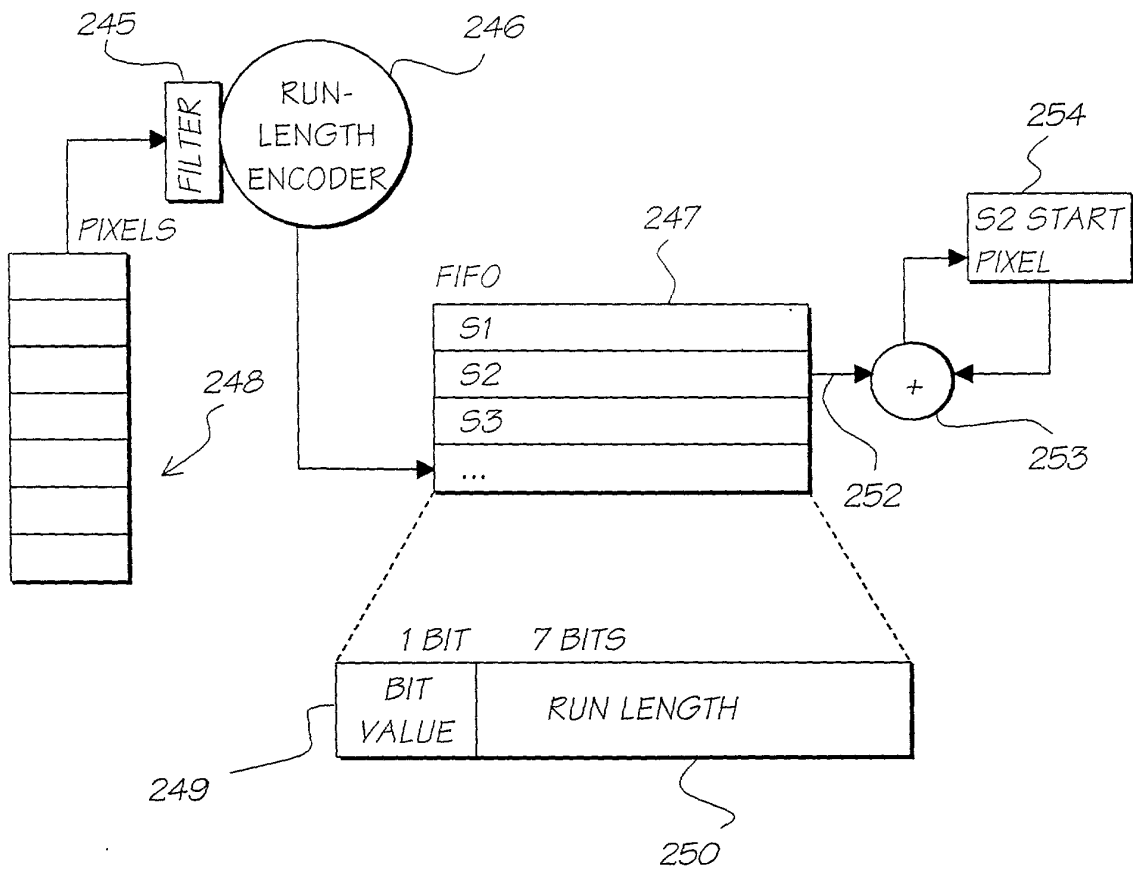


FIG. 40

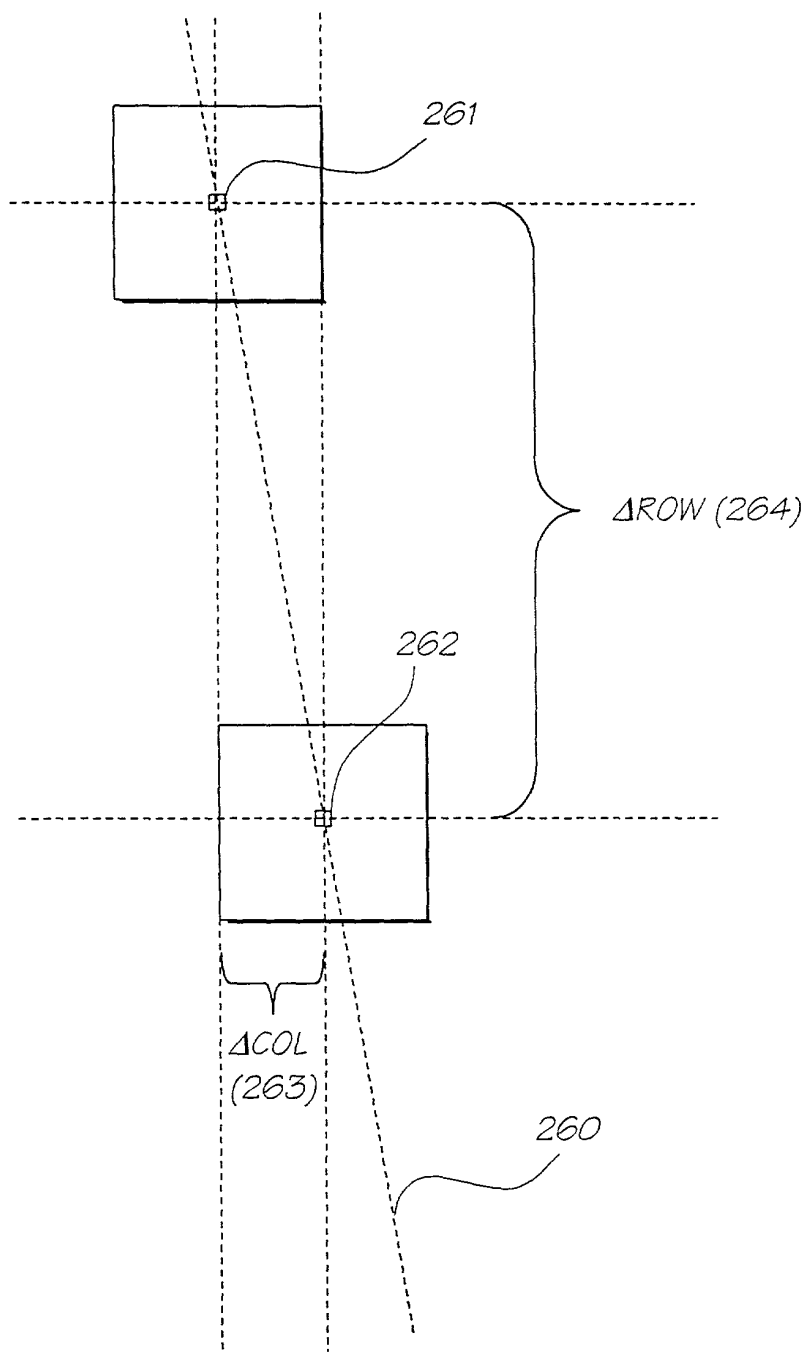


FIG. 41

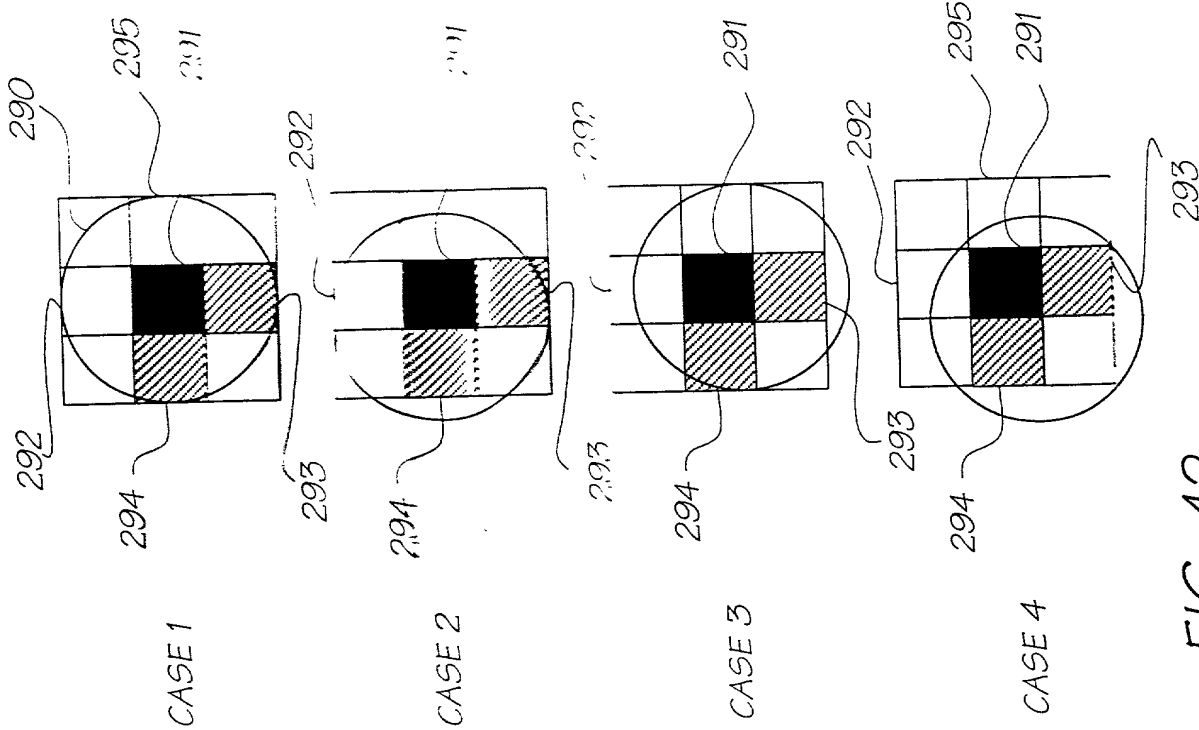


FIG. 42

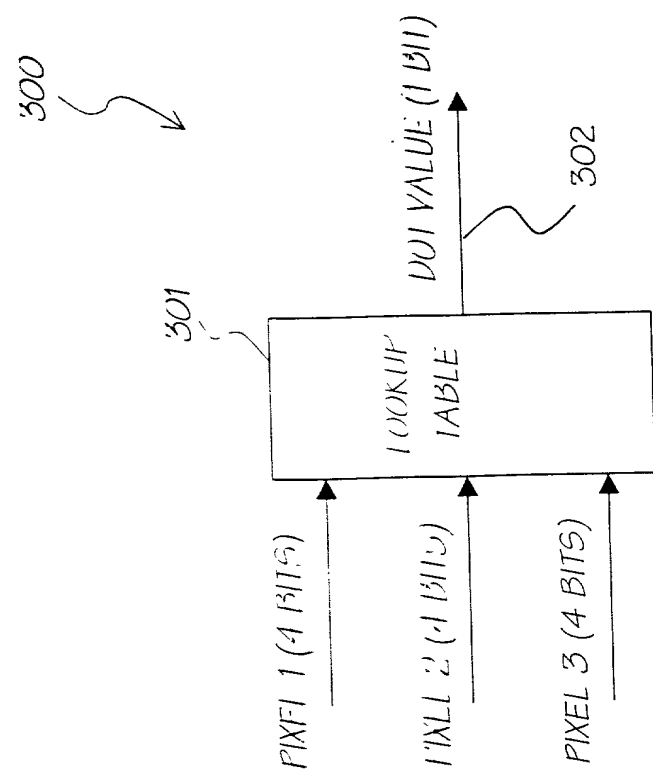


FIG. 43

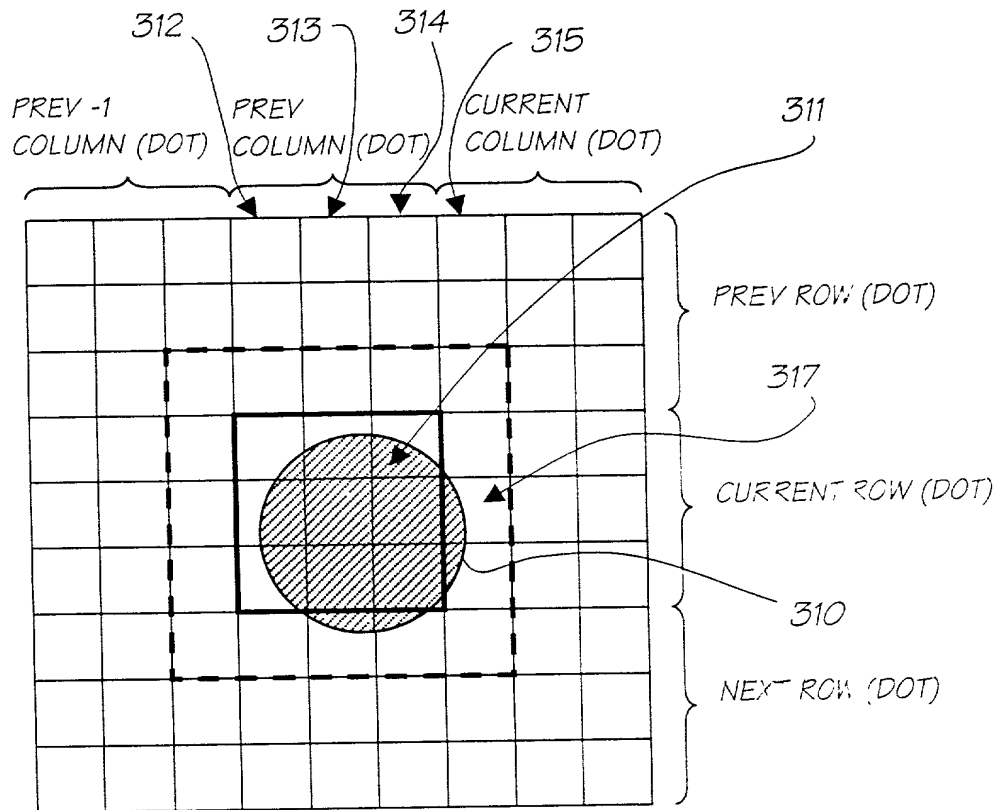


FIG. 44

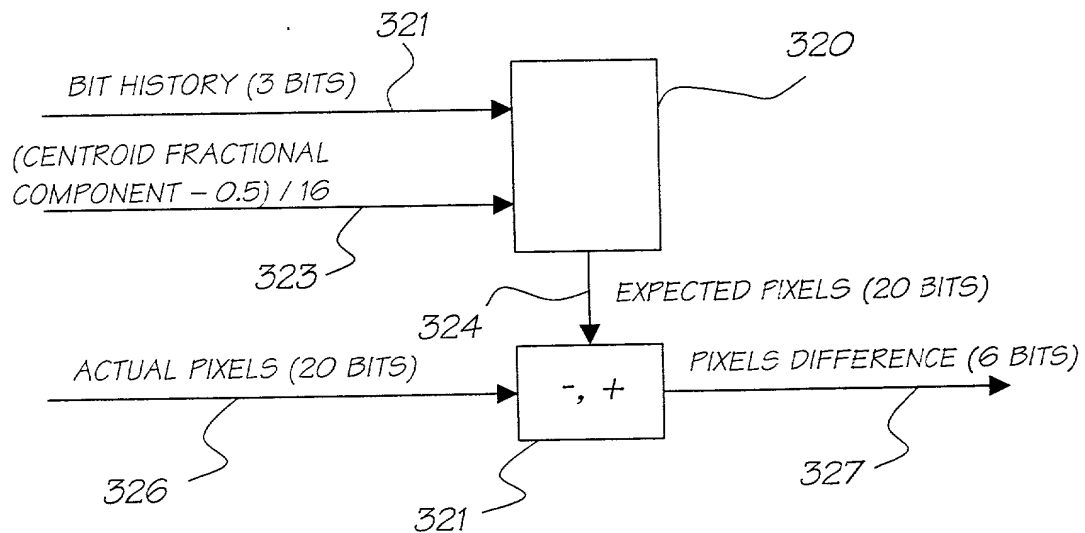


FIG. 45

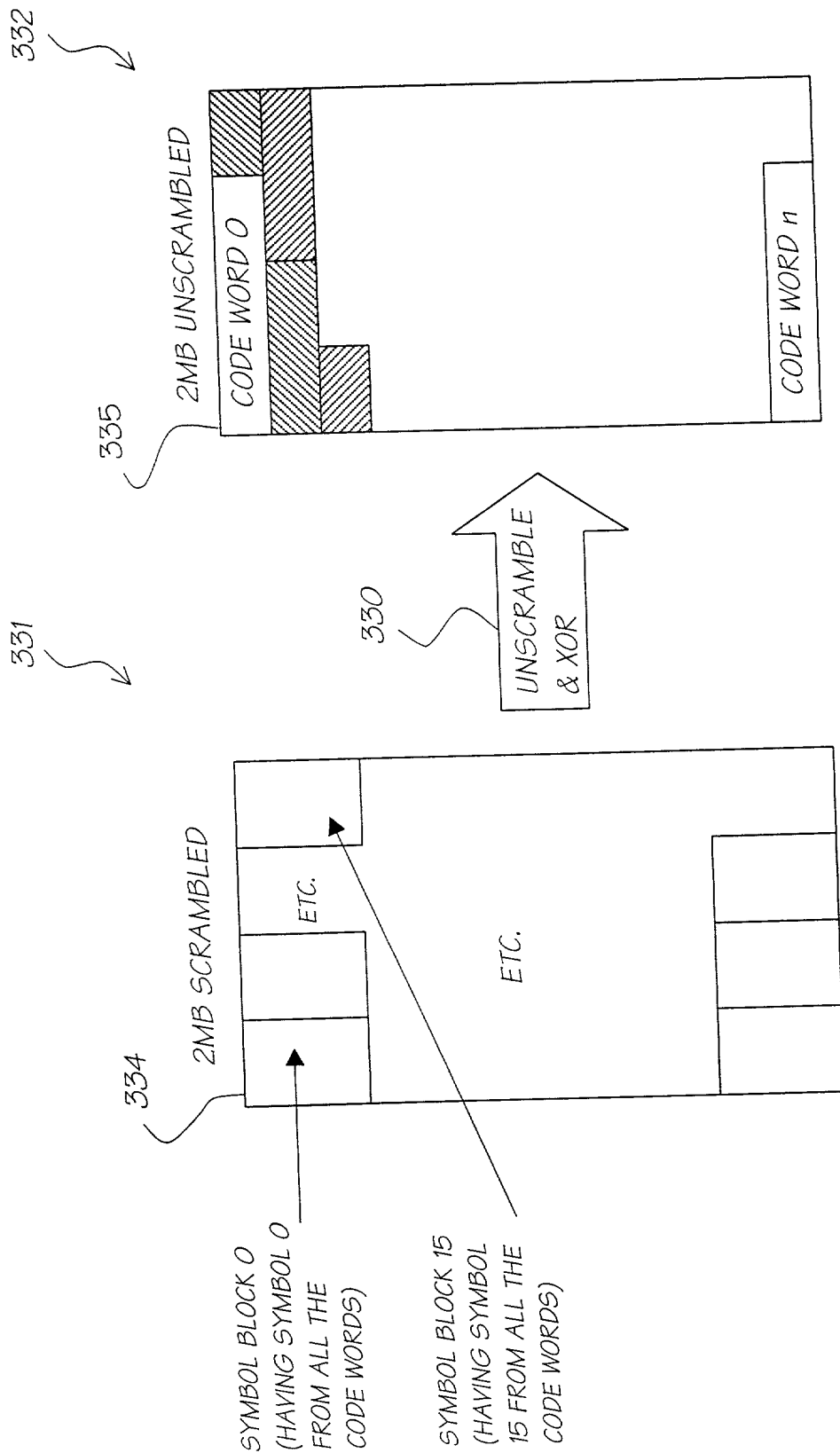
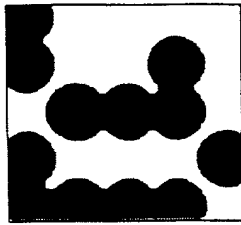
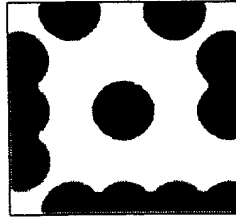


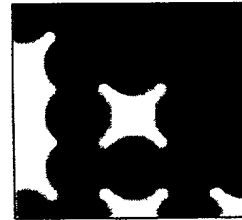
FIG. 46



BLACK AND WHITE  
DOTS



BLACK DOT  
SURROUNDED  
BY WHITE



WHITE DOT  
SURROUNDED  
BY BLACK

FIG. 47

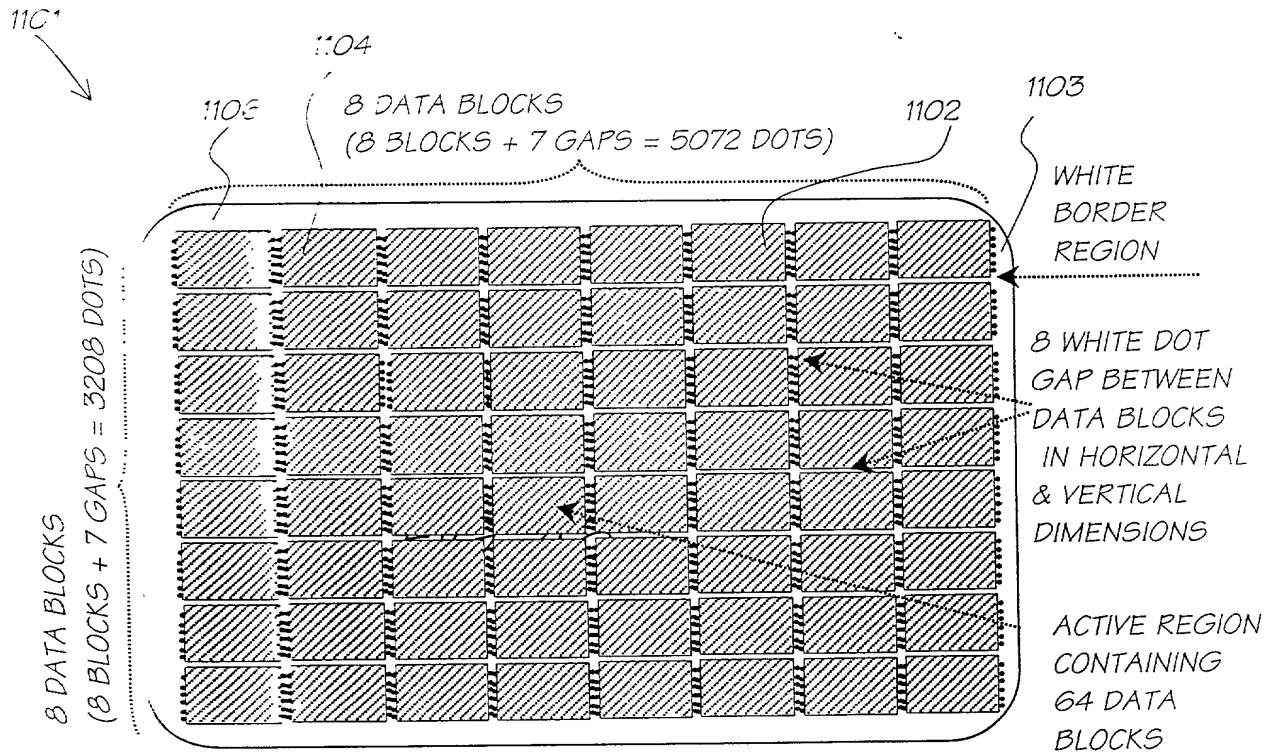


FIG. 48

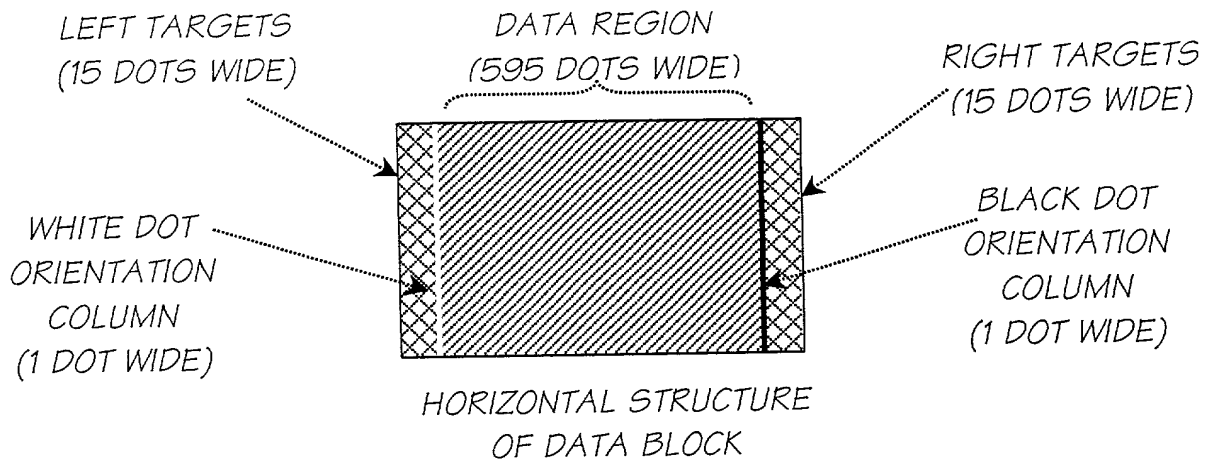
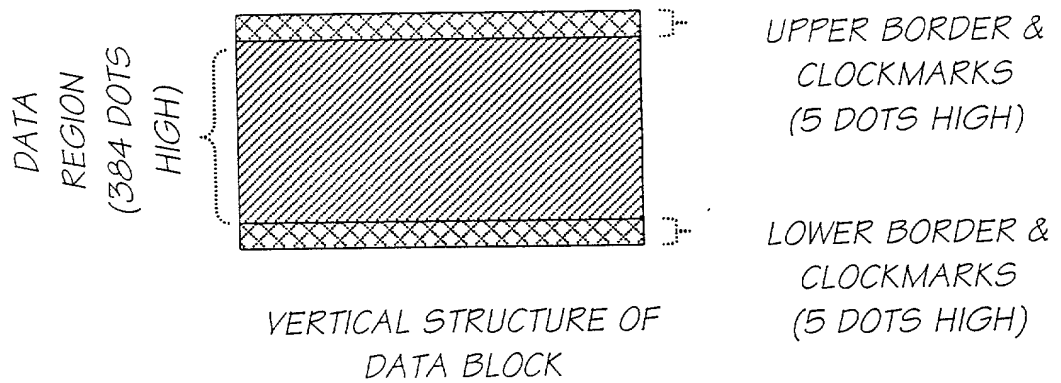
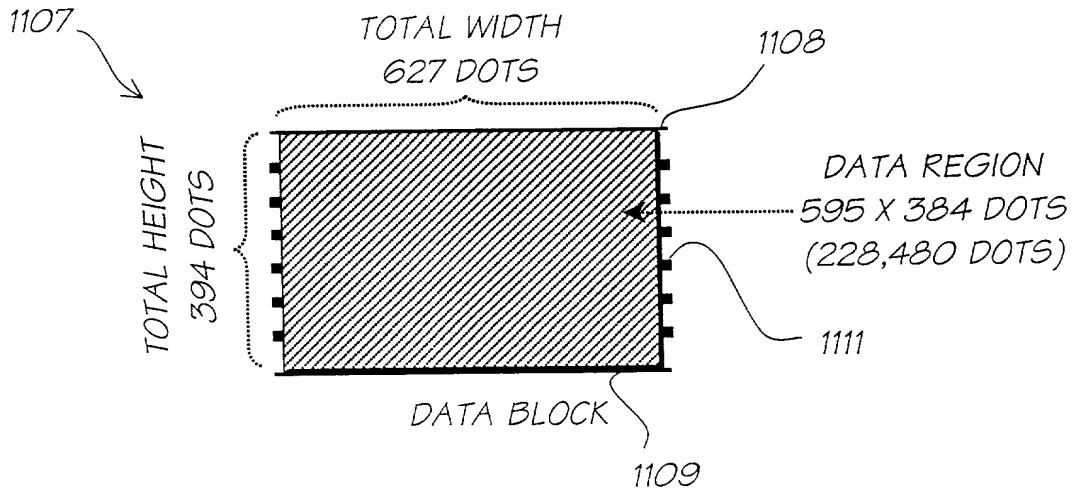


FIG. 49

FIG. 51

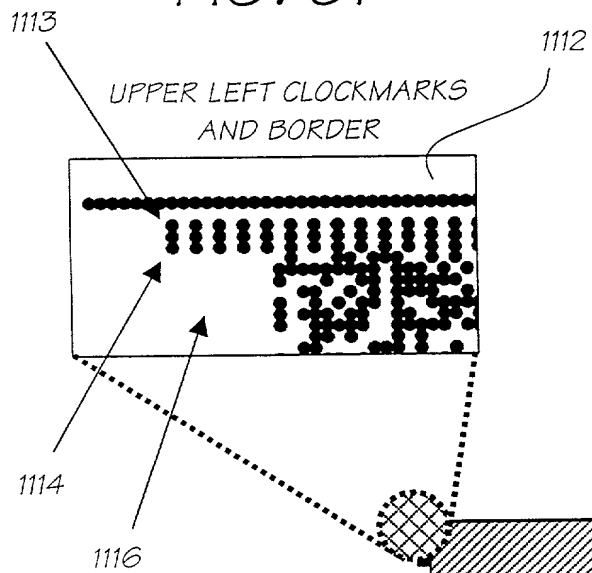


FIG. 52

LOWER RIGHT CLOCKMARKS  
AND BORDER

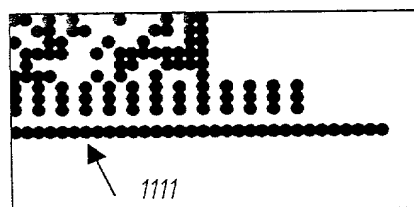


FIG. 50



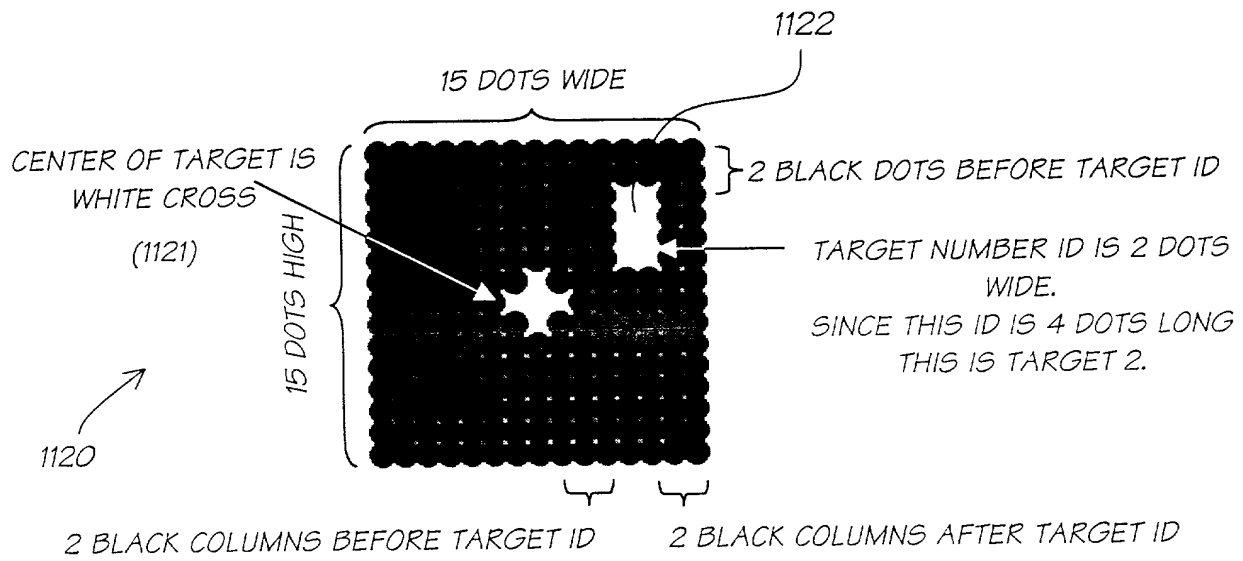


FIG. 53

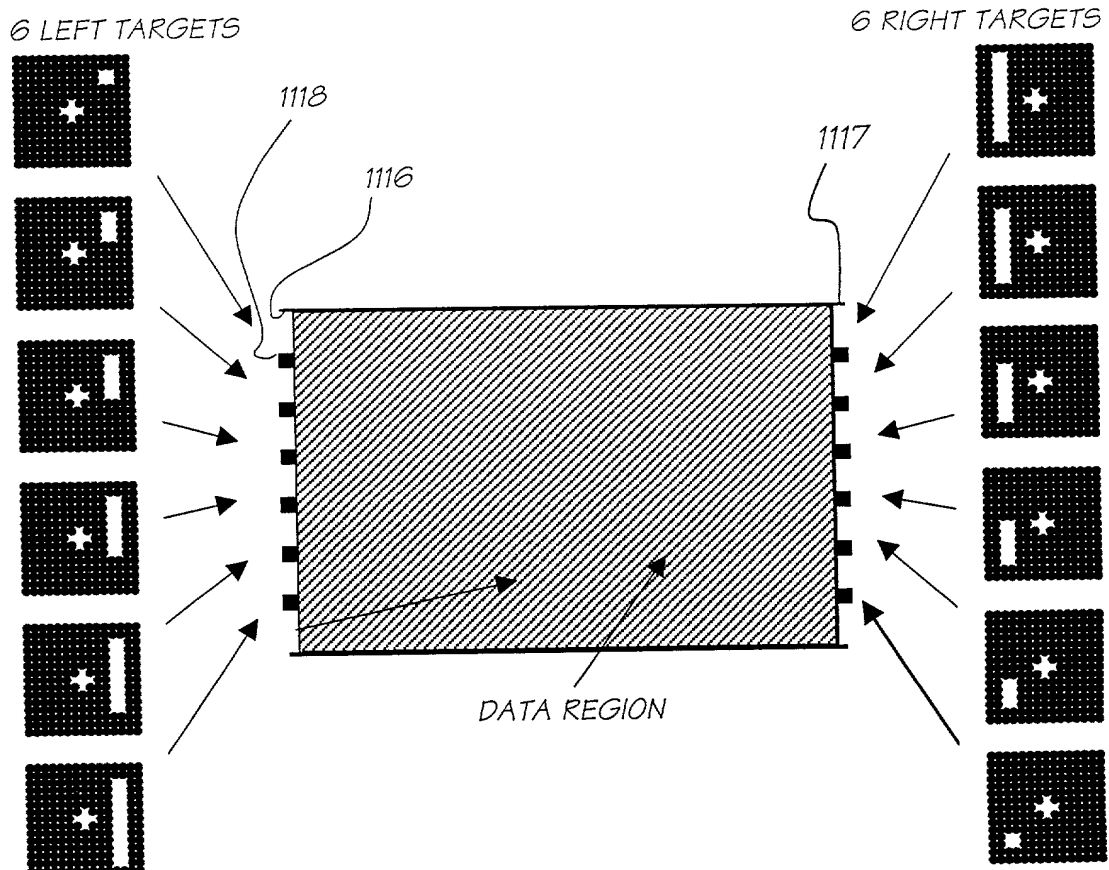


FIG. 54

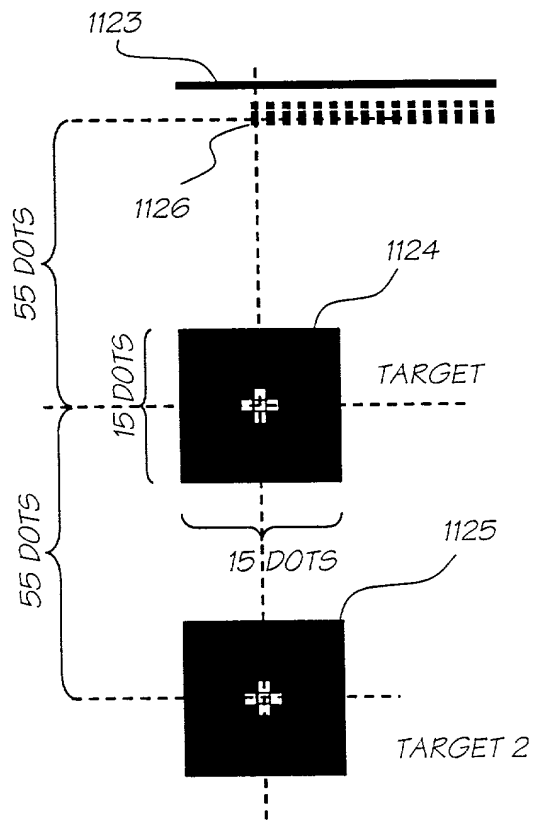


FIG. 55

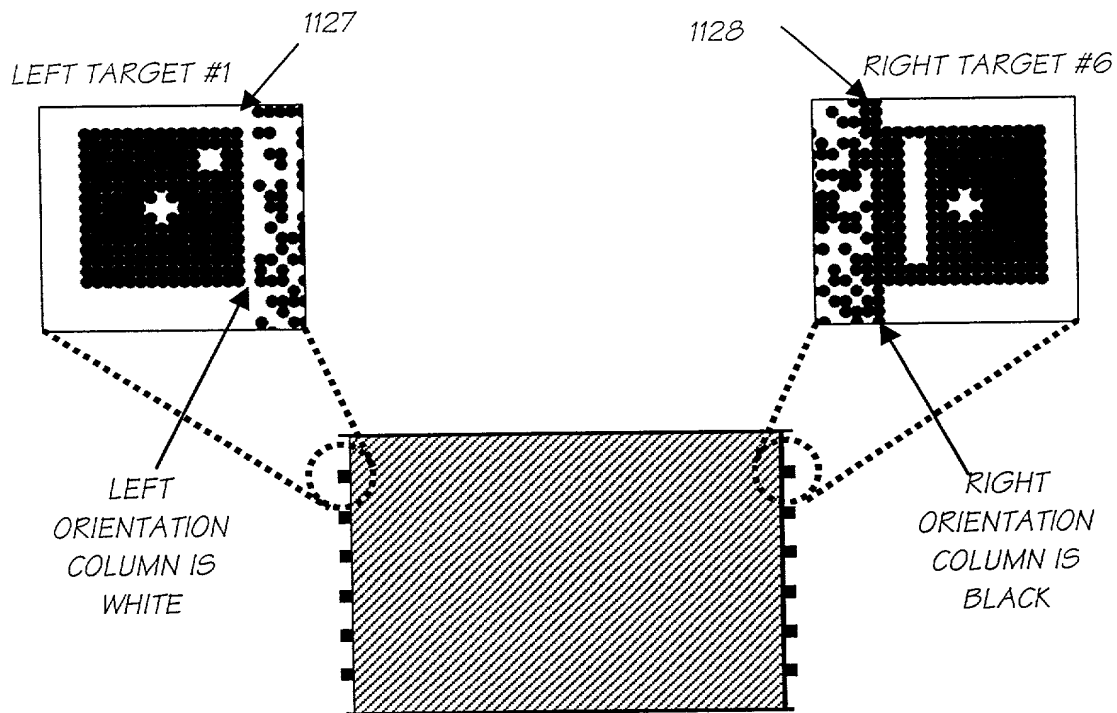


FIG. 56

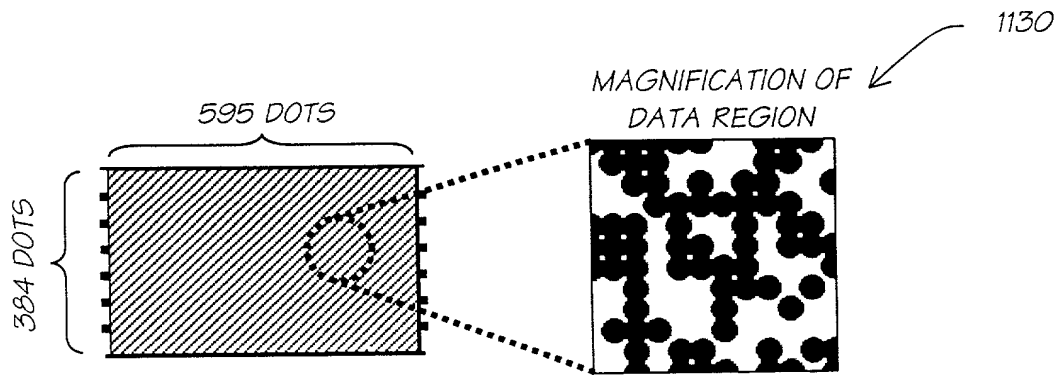


FIG. 57

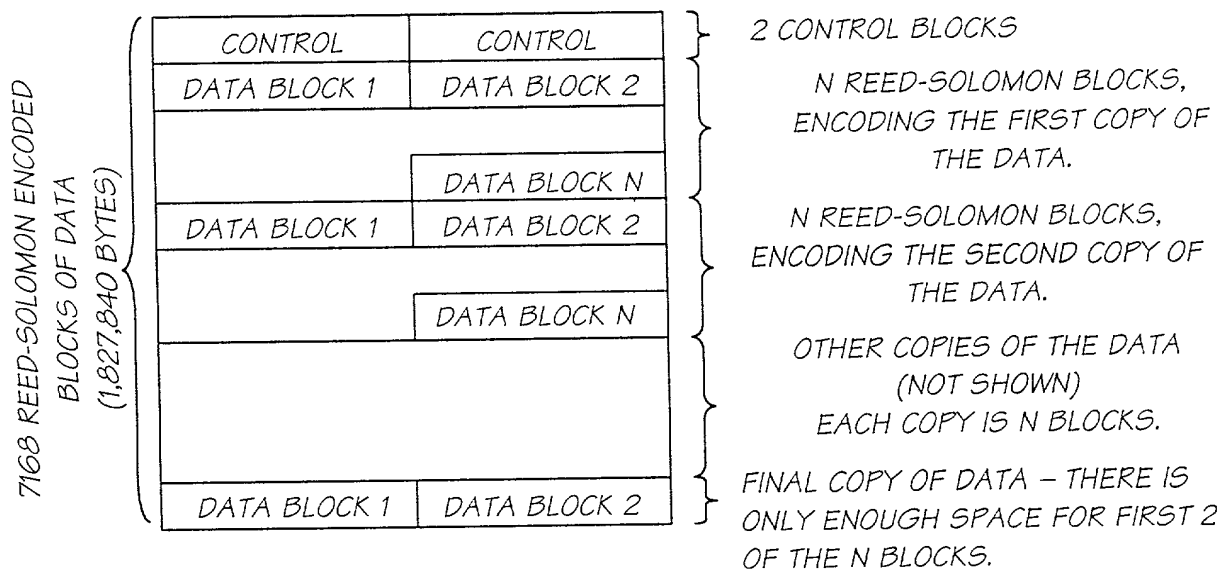


FIG. 58

00:	4F	00	3D	4F	00	3D	4F	00	3D	4F	00	3D
0C:	4F	00	3D	4F	00	3D	4F	00	3D	4F	00	3D
18:	4F	00	3D	4F	00	3D	4F	00	3D	4F	00	3D
24:	4F	00	3D	4F	00	3D	4F	00	3D	4F	00	3D
30:	4F	00	3D	4F	00	3D	4F	00	3D	4F	00	3D
3C:	4F	00	3D	4F	00	3D	4F	00	3D	4F	00	3D
48:	4F	00	3D	4F	00	3D	4F	00	3D	4F	00	3D
54:	4F	00	3D	4F	00	3D	4F	00	3D	4F	00	3D
60:	00	00	00	00	00	00	00	00	00	00	00	00
6C:	00	00	00	00	00	00	00	00	00	00	00	00
78:	00	00	00	00	00	00	00	00	00	00	00	00

32 COPIES OF THE 3 BYTE CONTROL INFORMATION

RESERVED BYTES ARE 0

FIG. 59

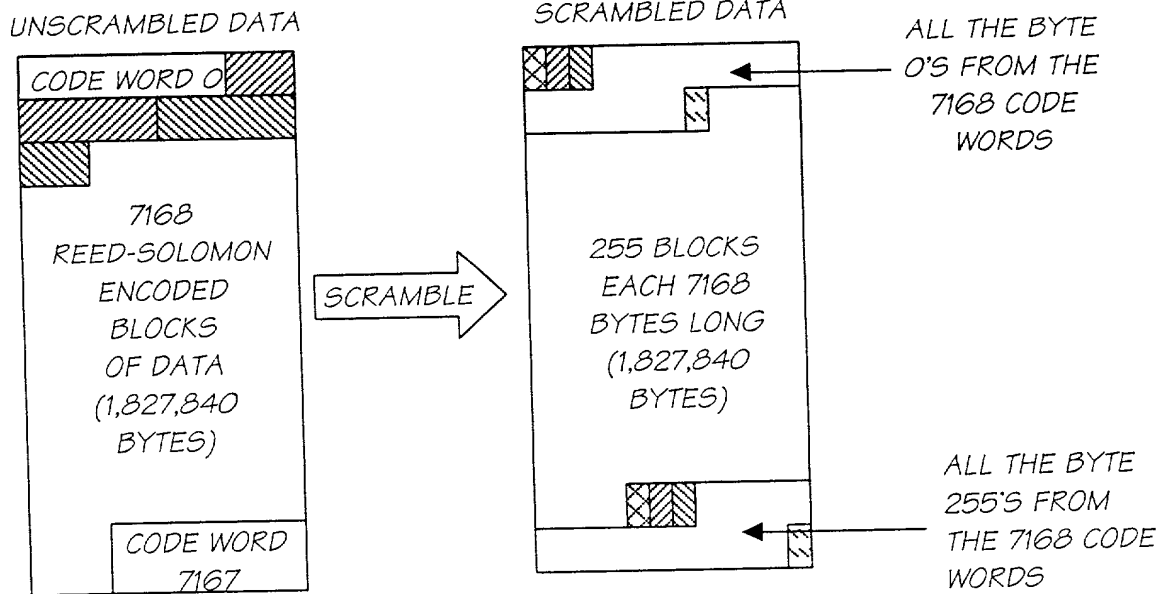


FIG. 60

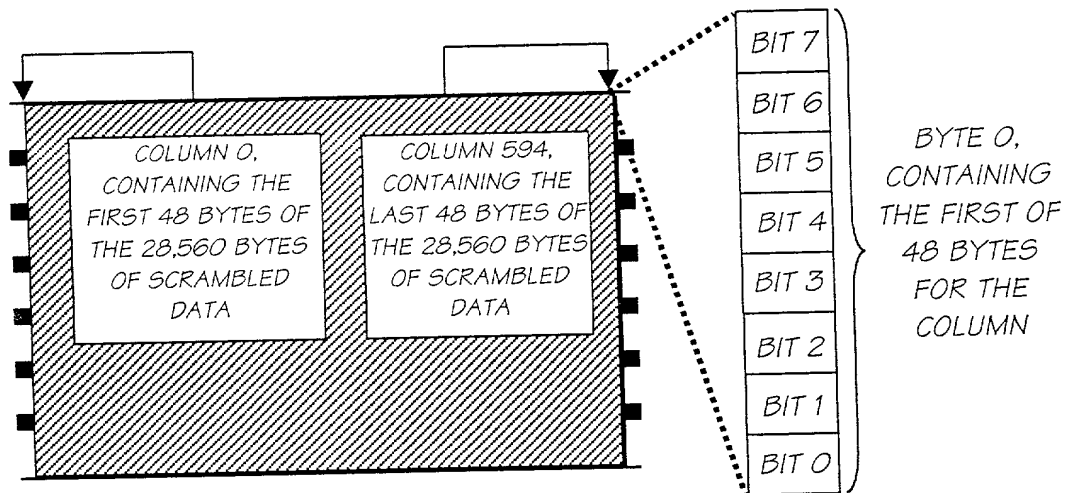


FIG. 61

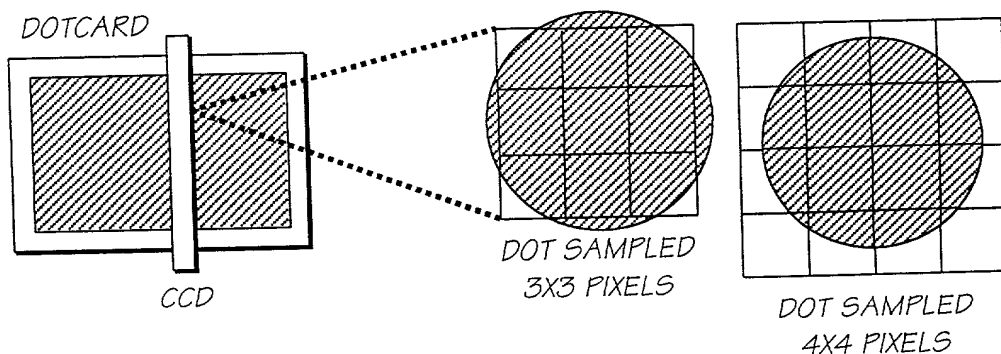


FIG. 62

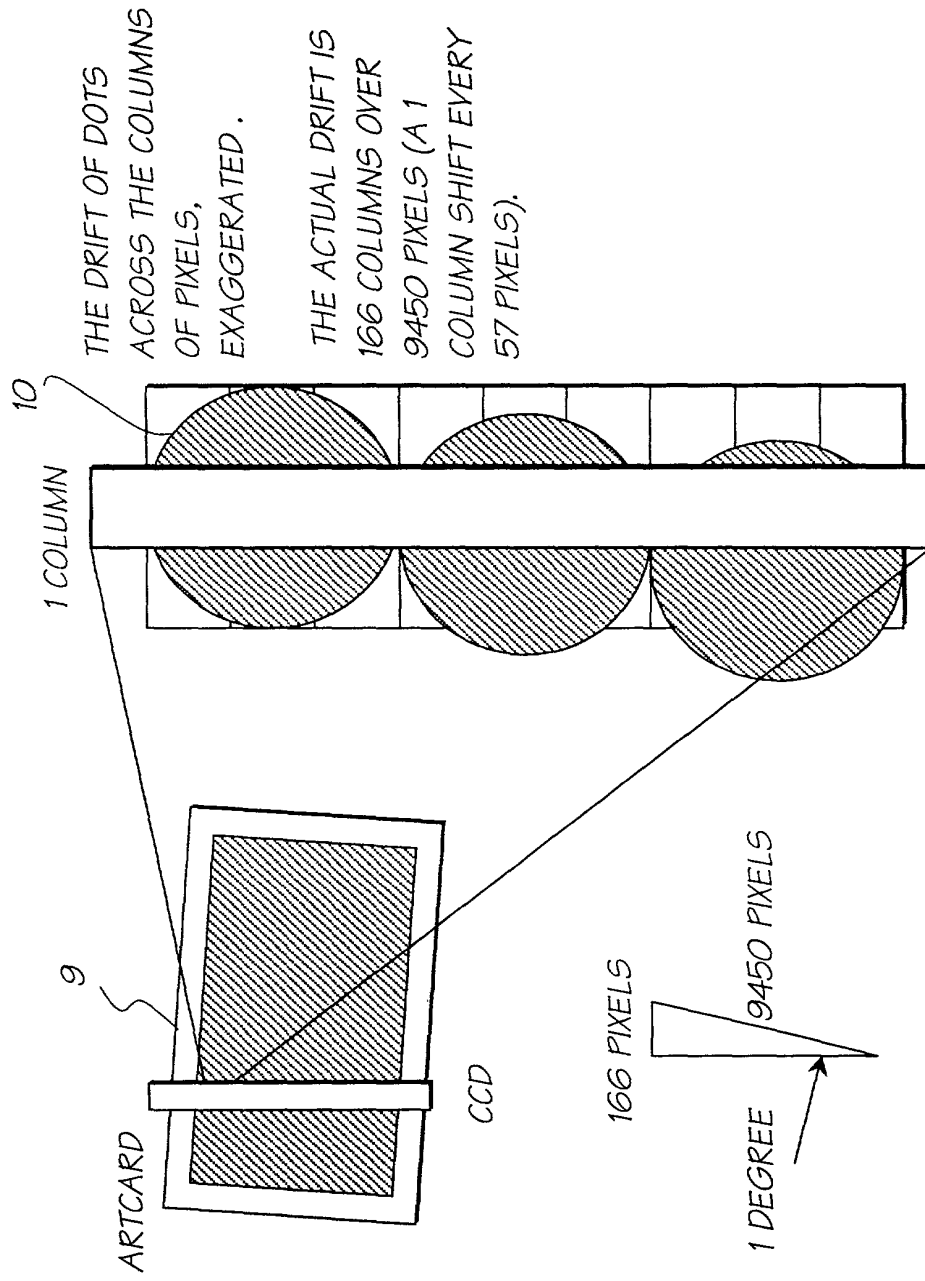


FIG. 63

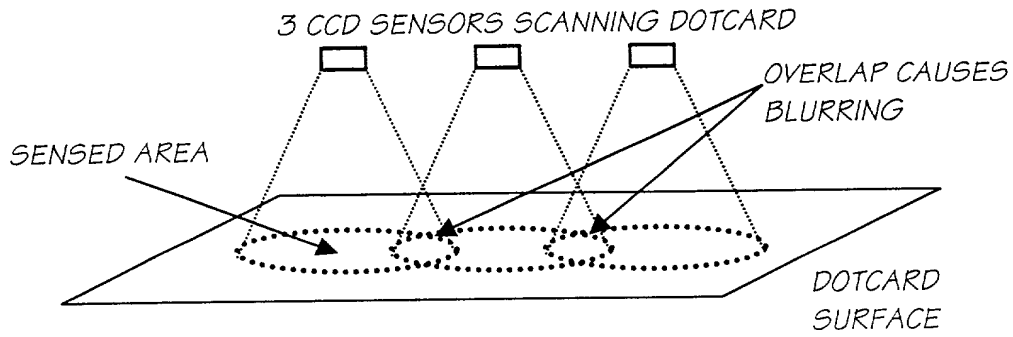


FIG. 64

RANGE OF BLACK DOTS  
(FREQUENCY DISTRIBUTION)

RANGE OF WHITE DOTS  
(FREQUENCY DISTRIBUTION)

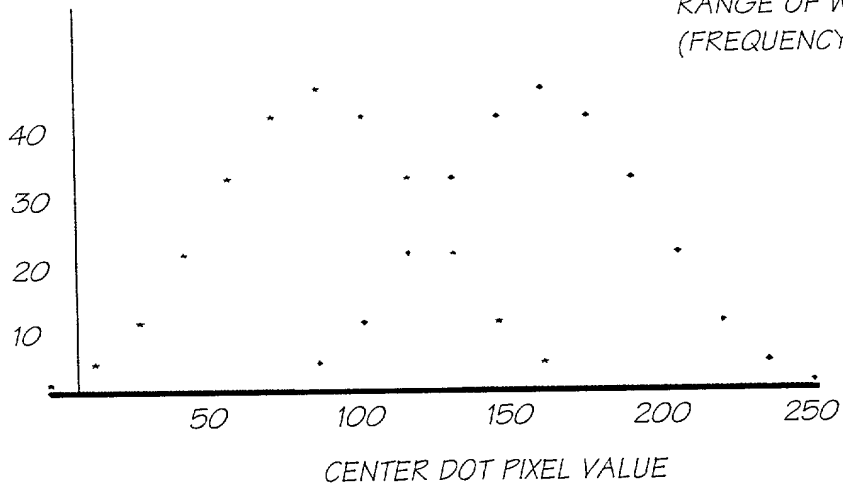


FIG. 65

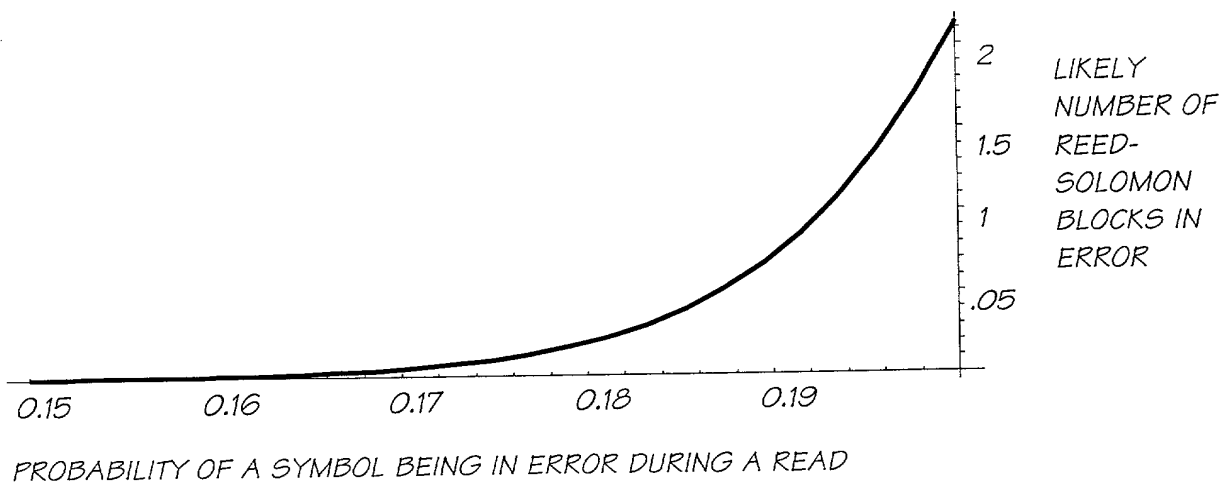


FIG. 66



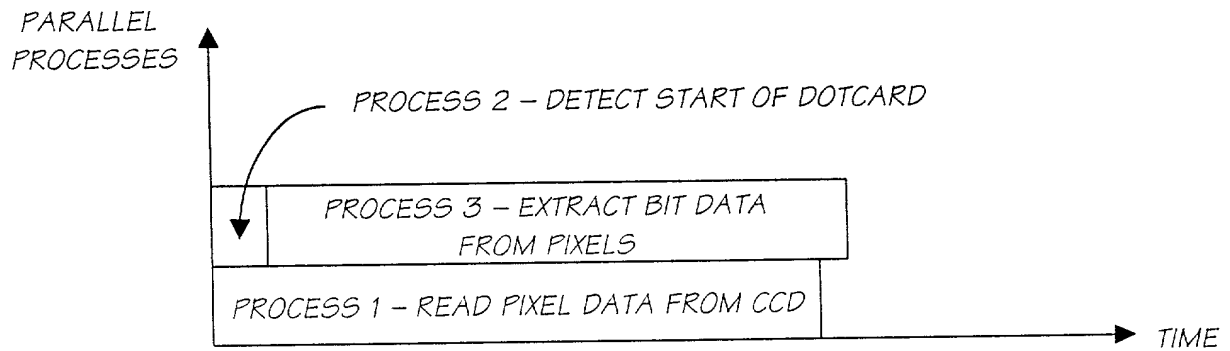


FIG. 68

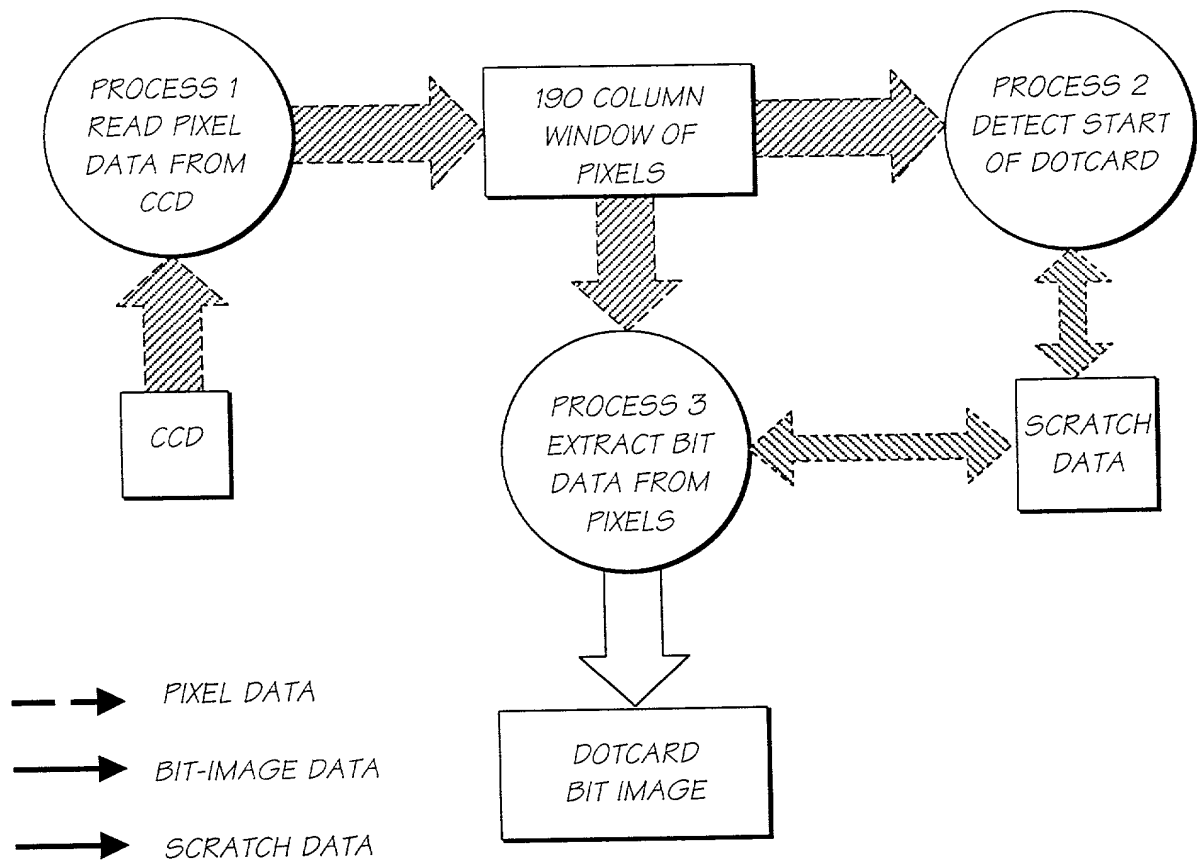


FIG. 69



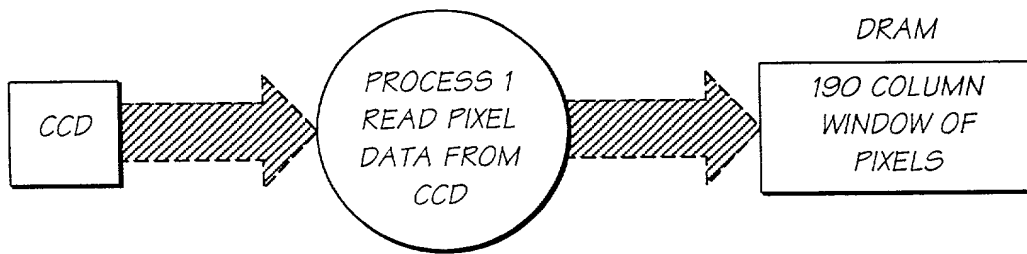


FIG. 70

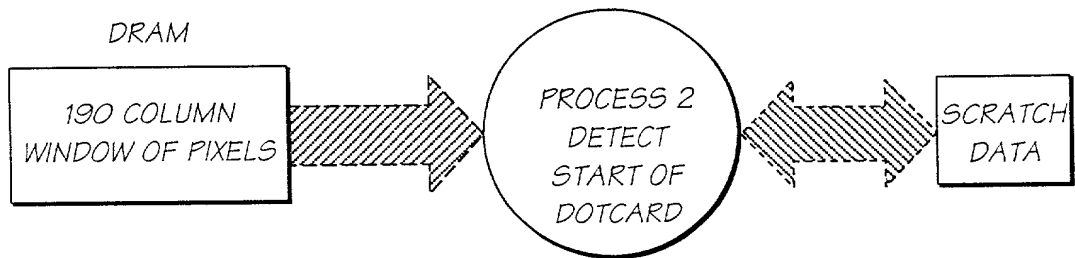


FIG. 71

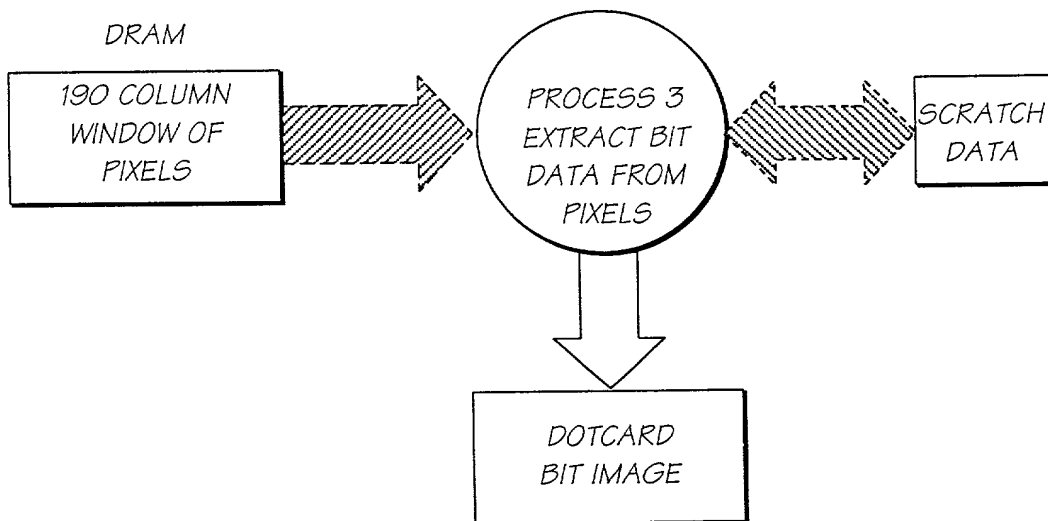


FIG. 72

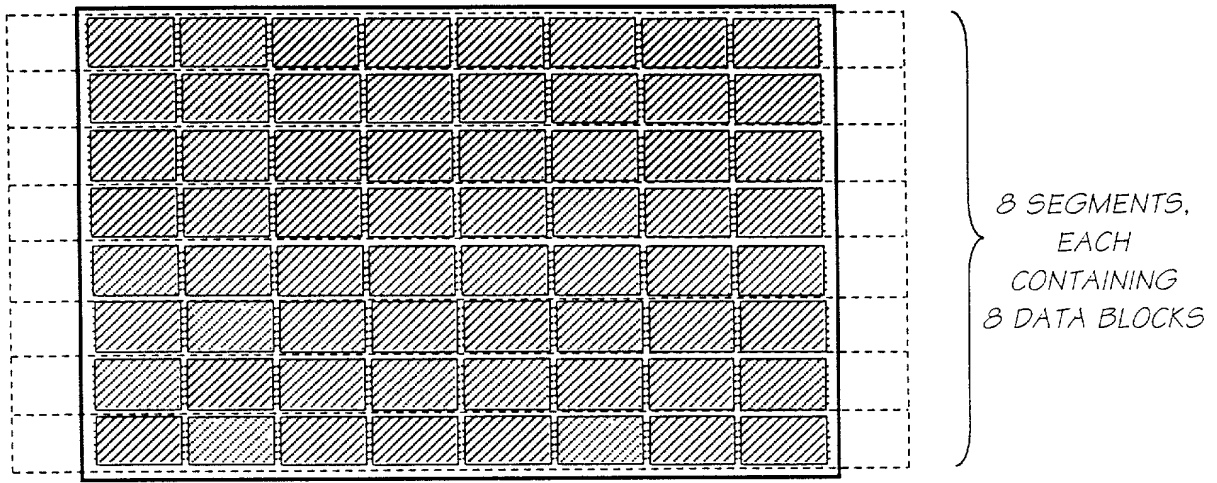


FIG. 73

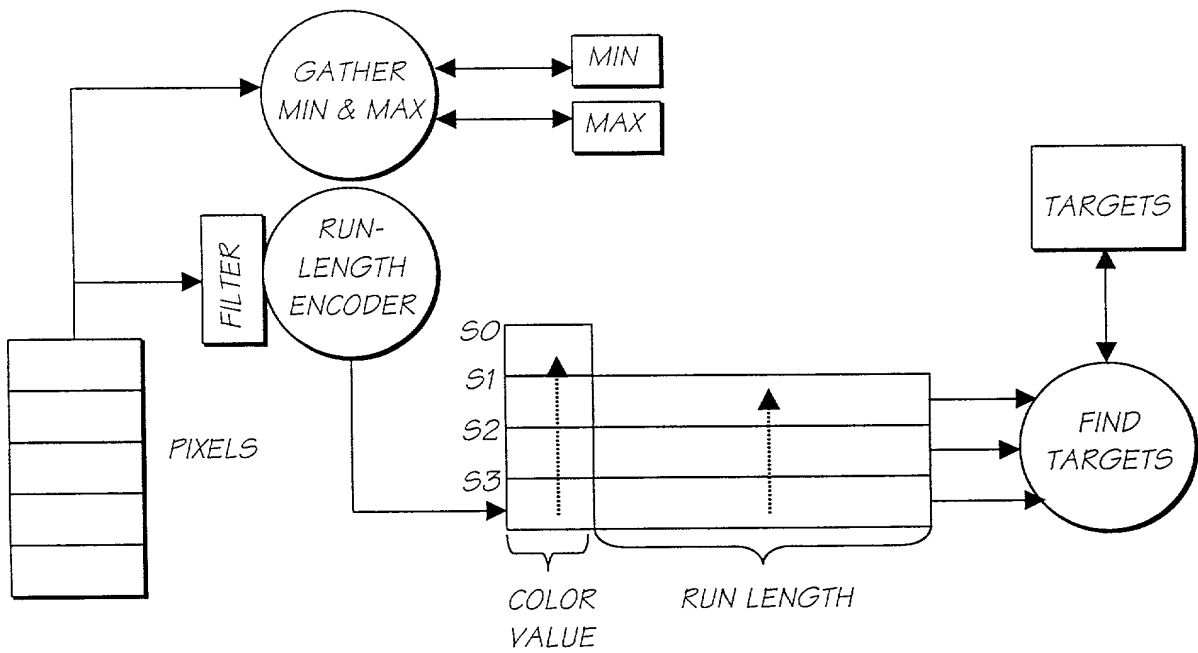


FIG. 74

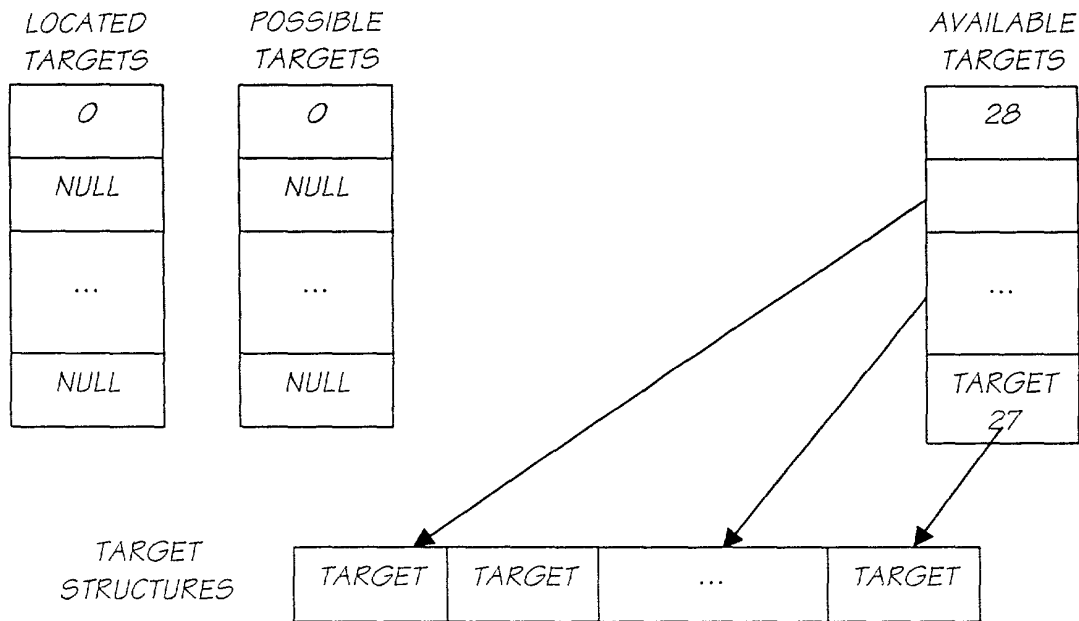


FIG. 75

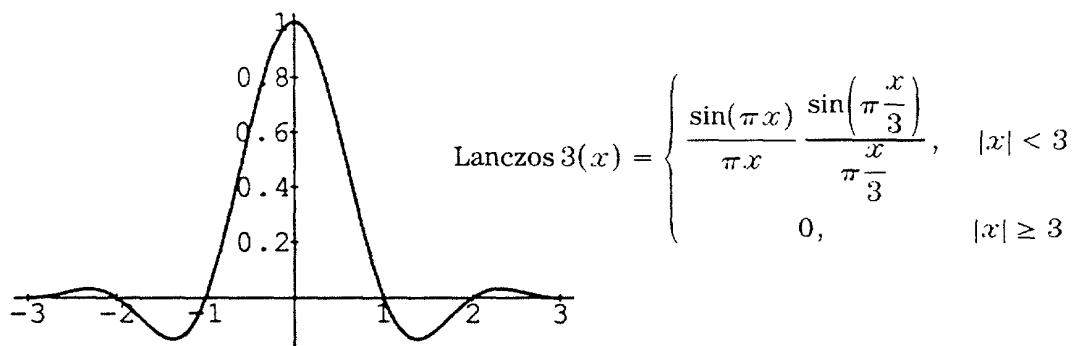


FIG. 76

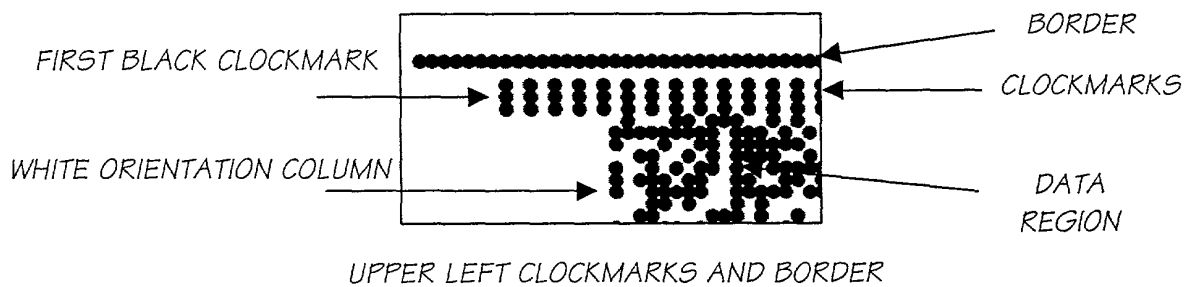


FIG. 77

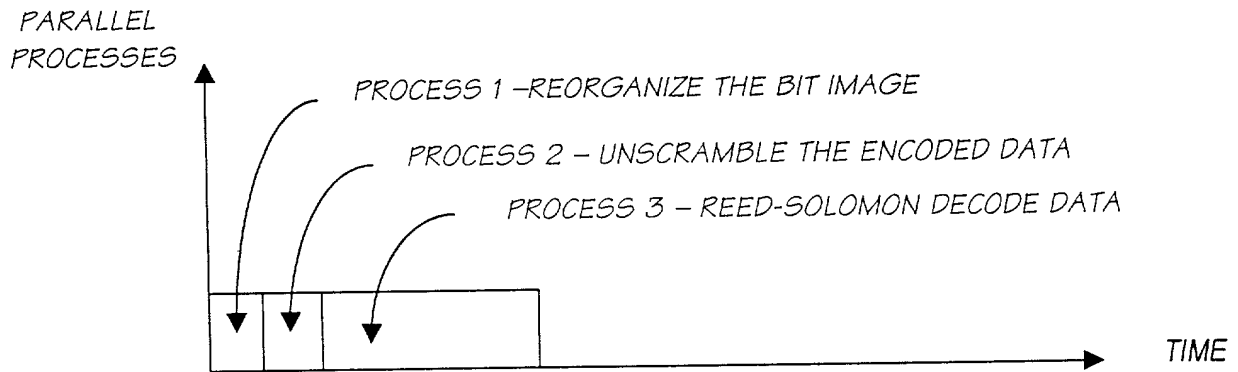


FIG. 78

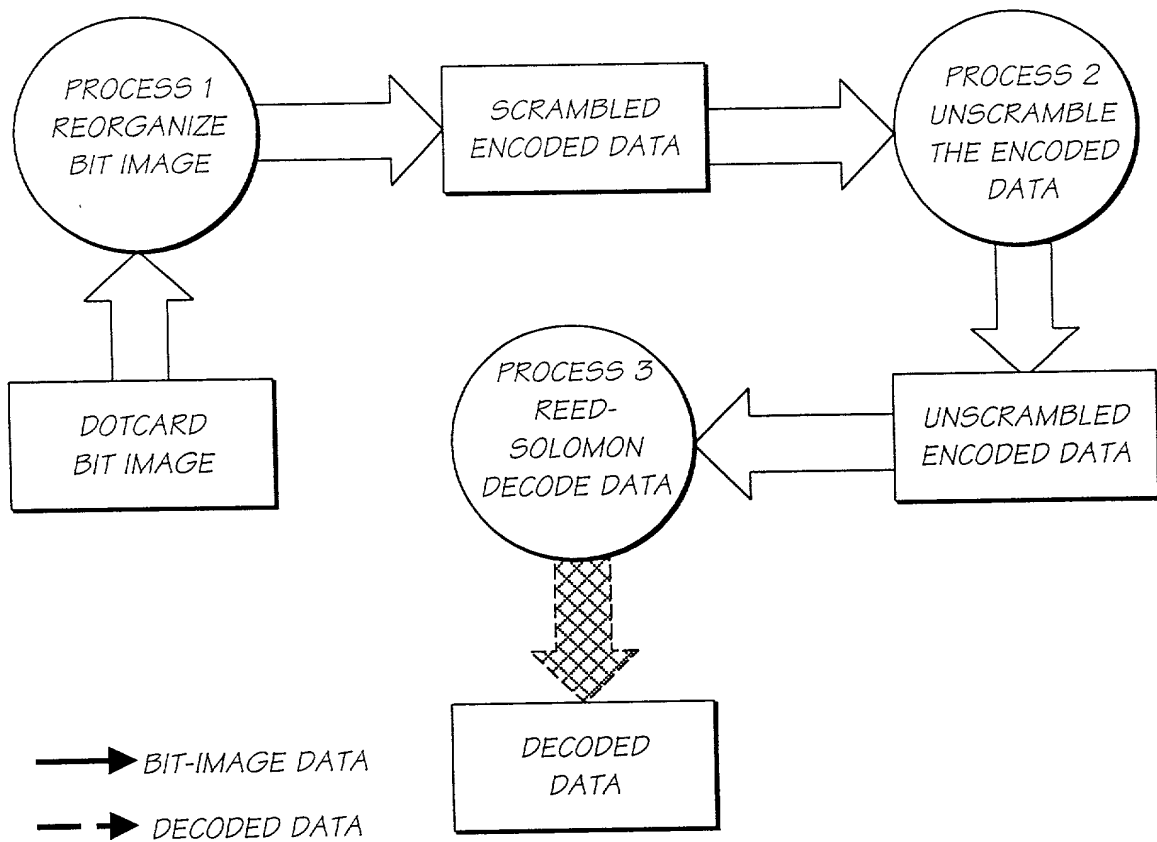


FIG. 79

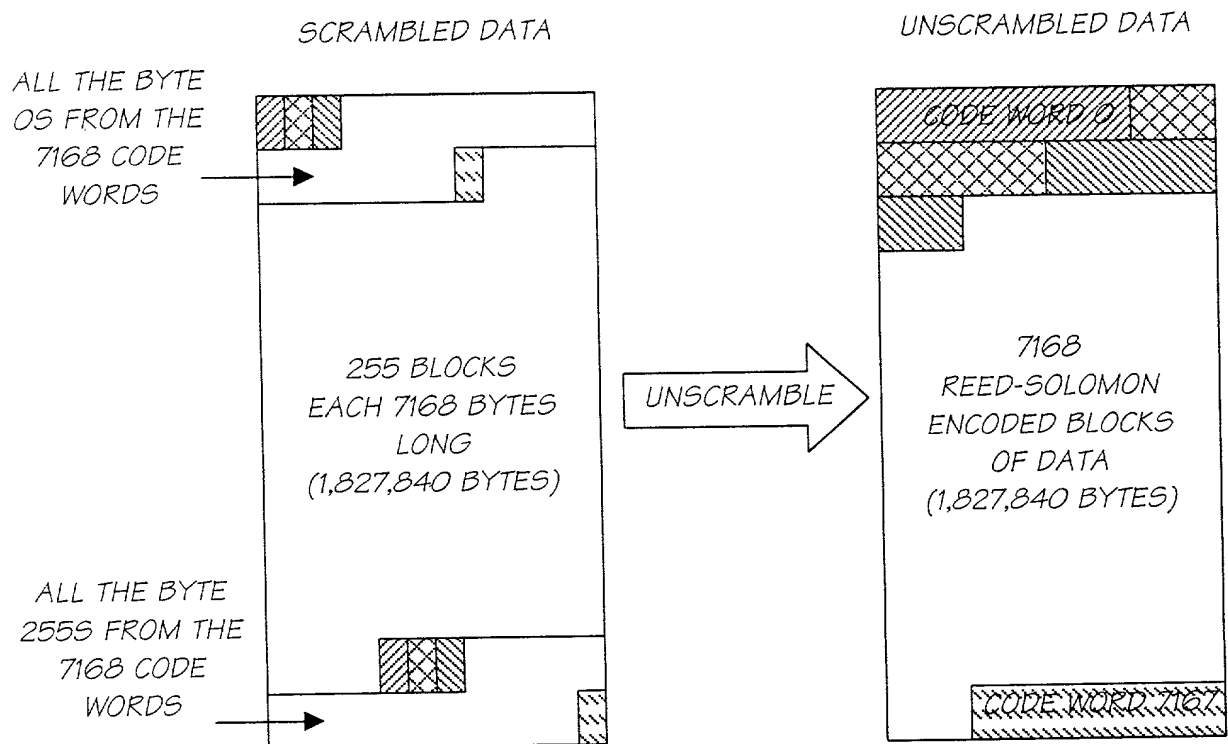


FIG. 80

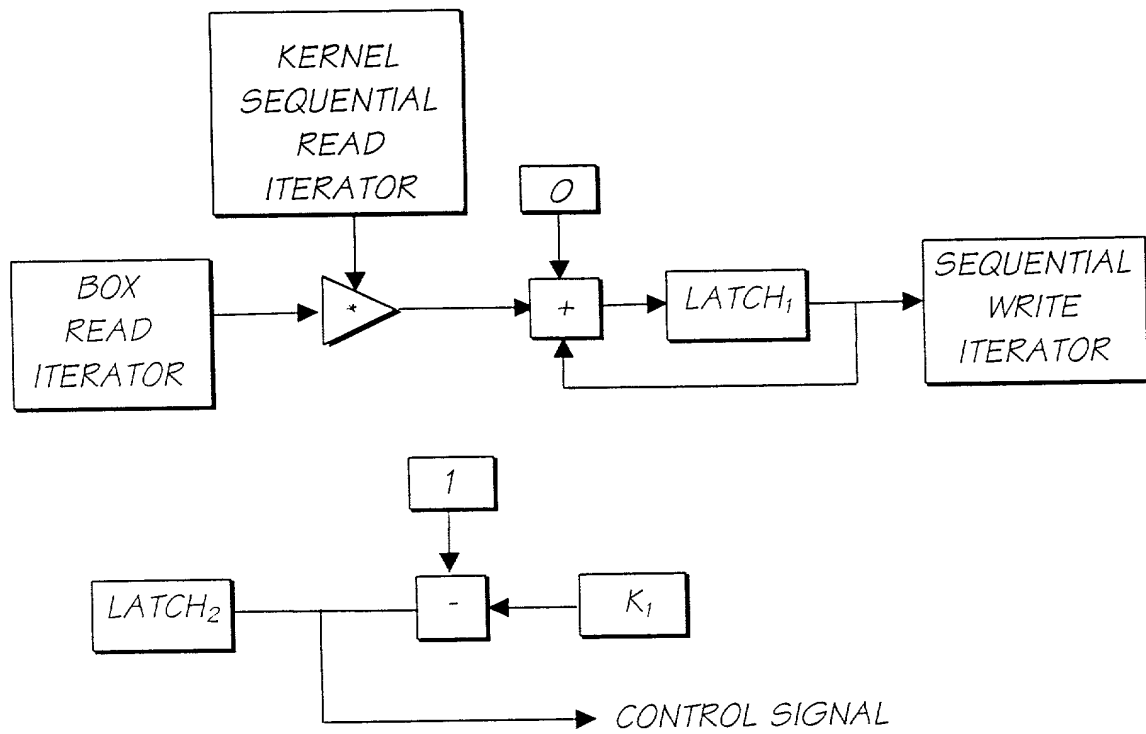


FIG. 81

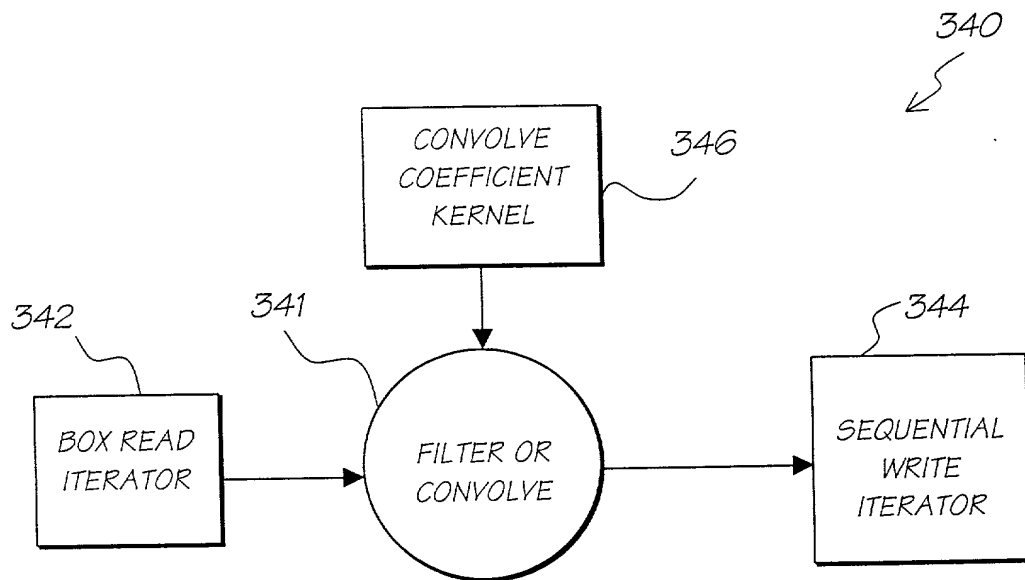


FIG. 82

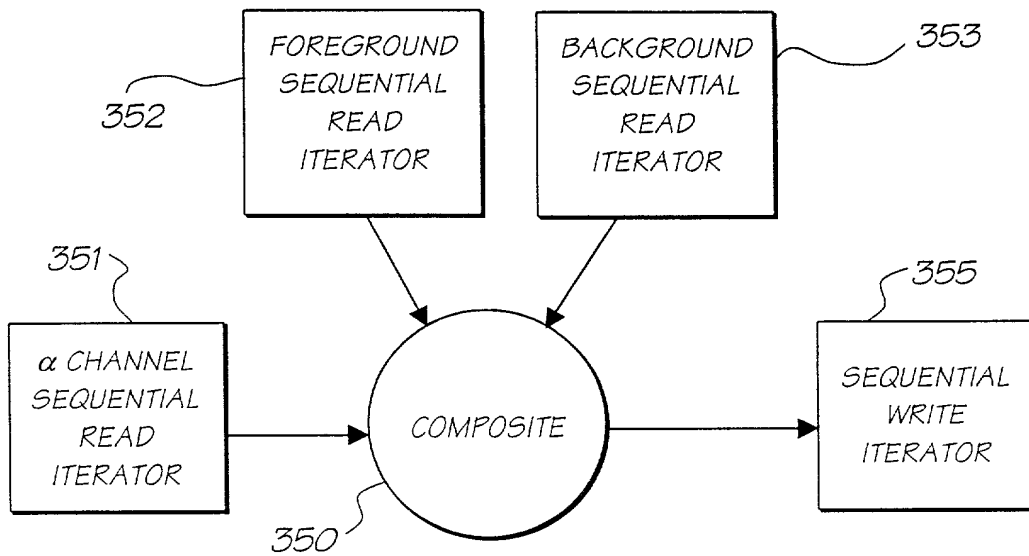


FIG. 83

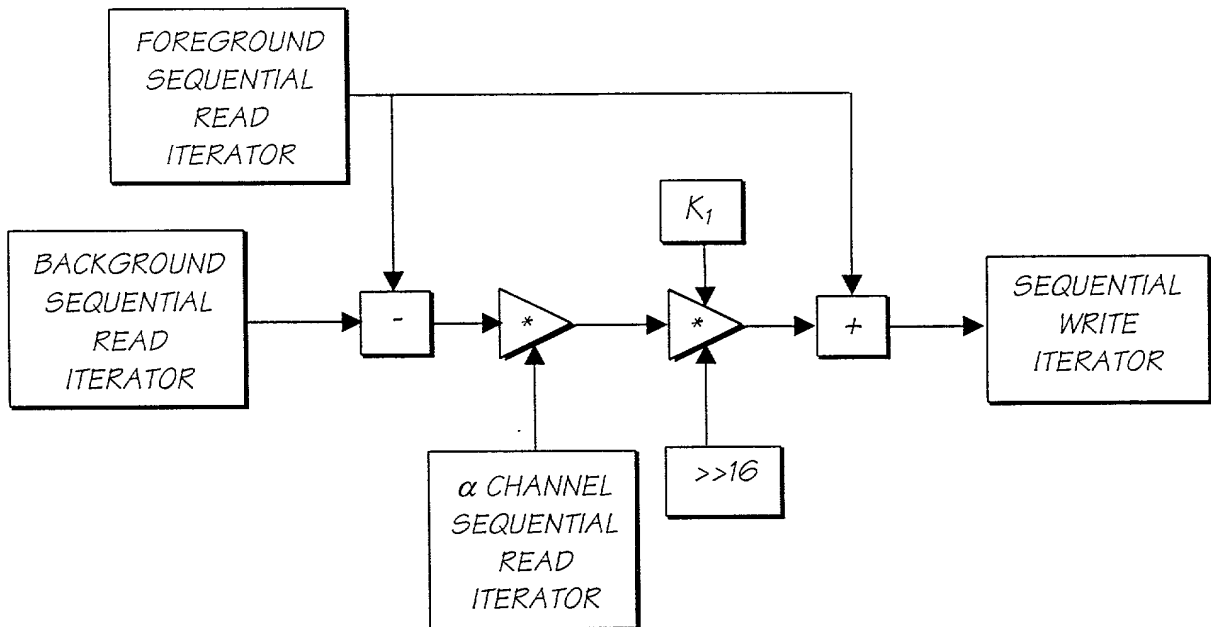


FIG. 84

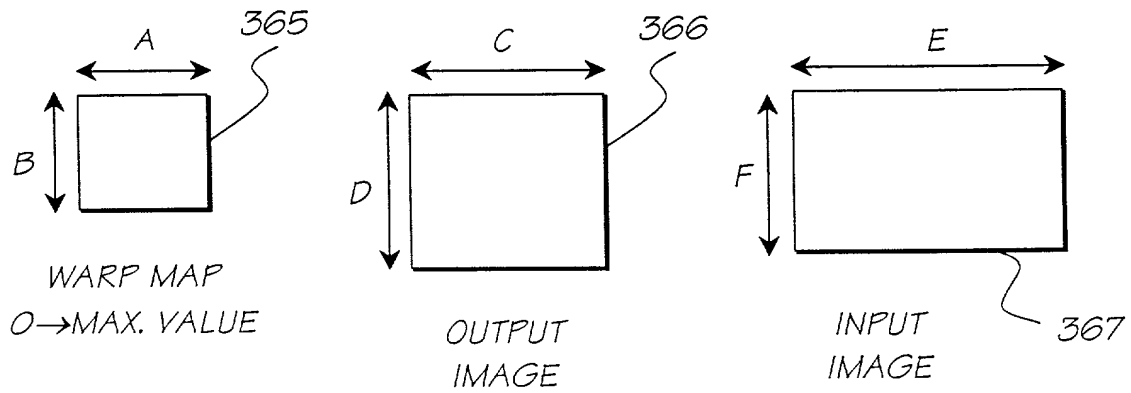


FIG. 85

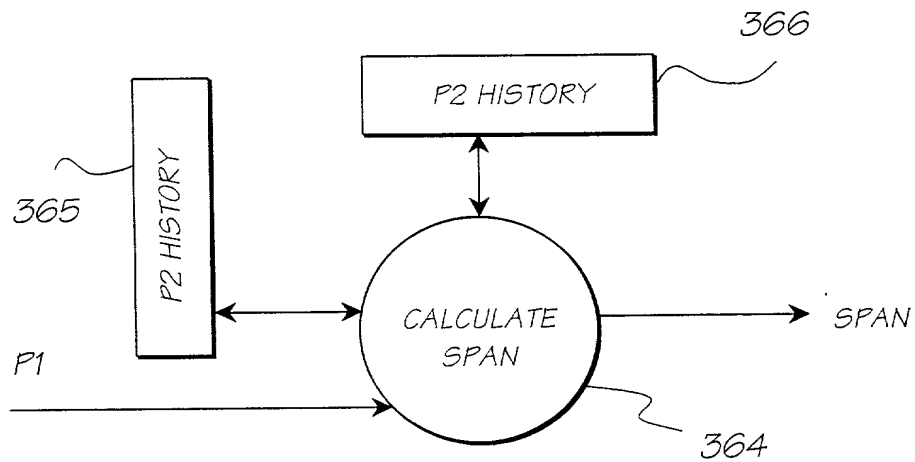


FIG. 86

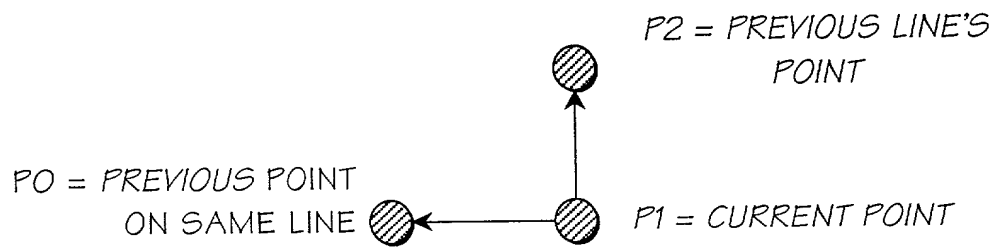


FIG. 88



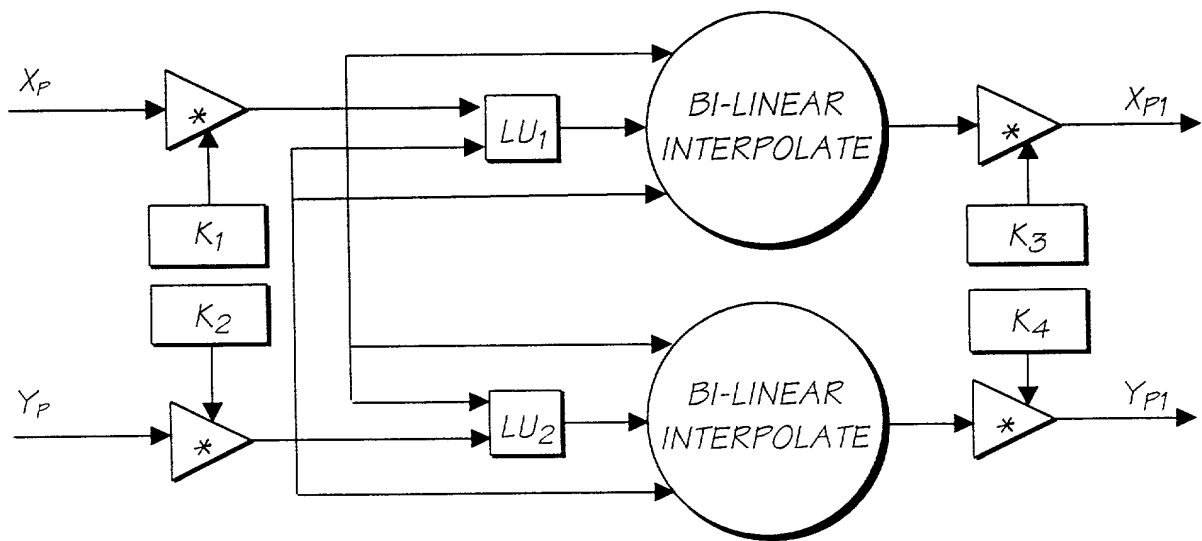


FIG. 87

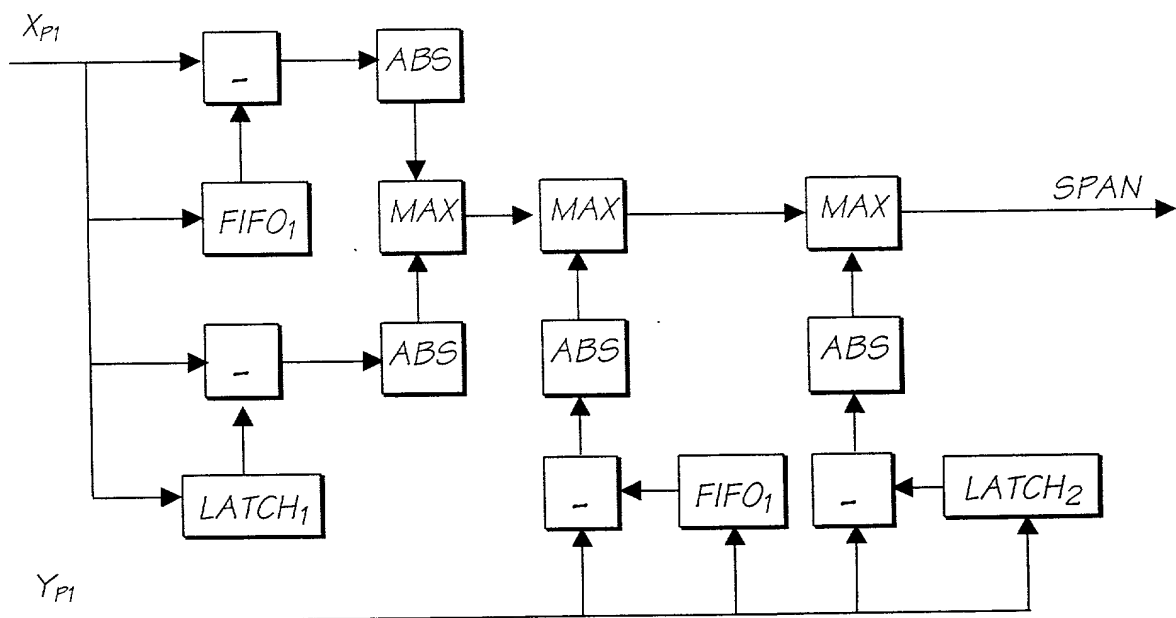


FIG. 89

POINT (x, y) ON LEVEL B  
OF PYRAMID

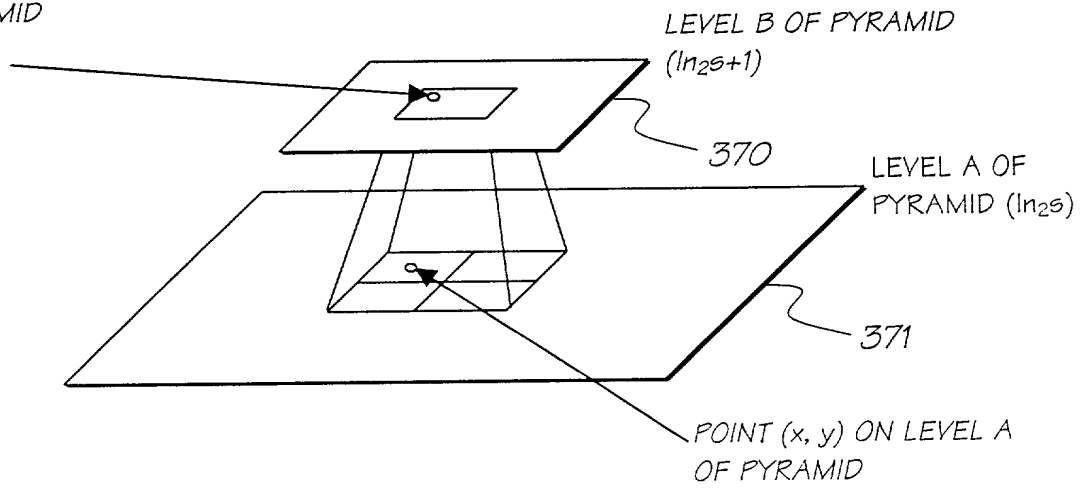


FIG. 90

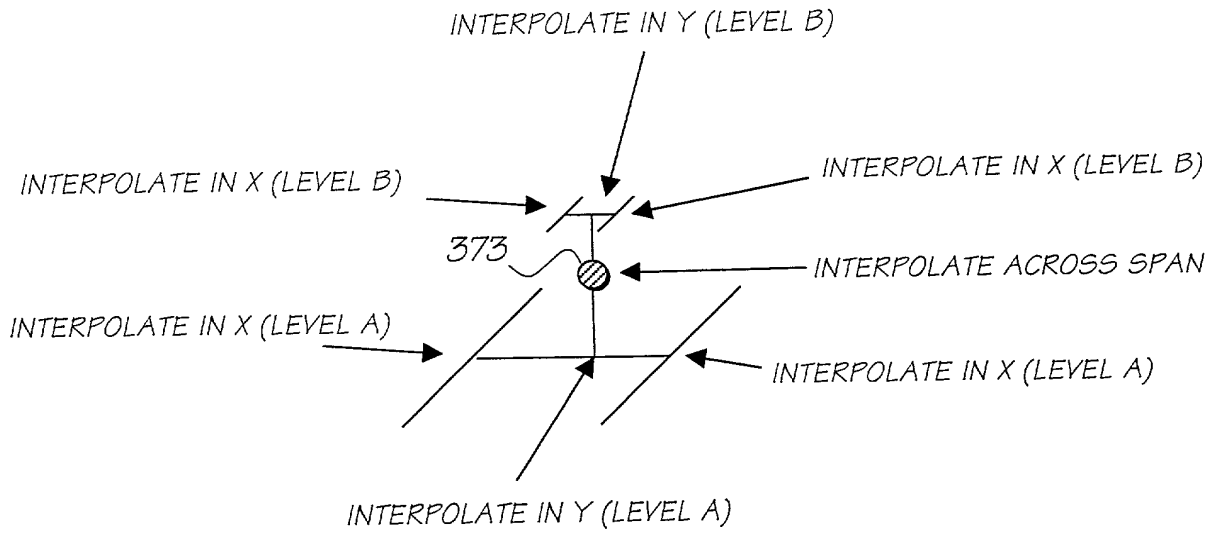


FIG. 91

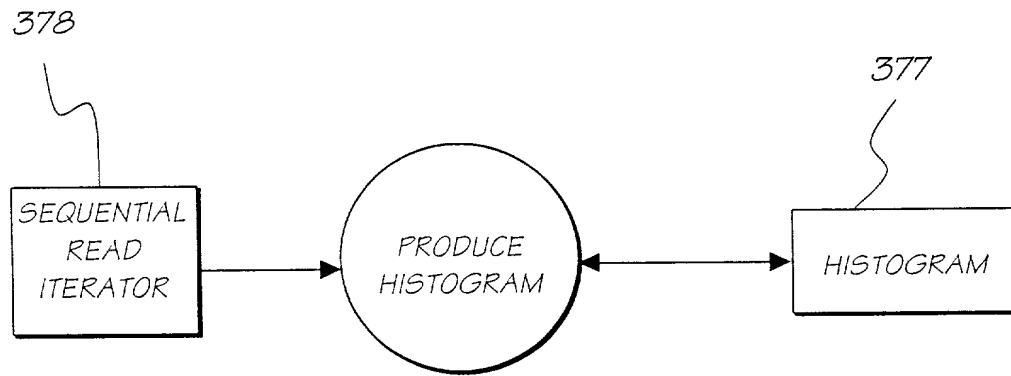


FIG. 92

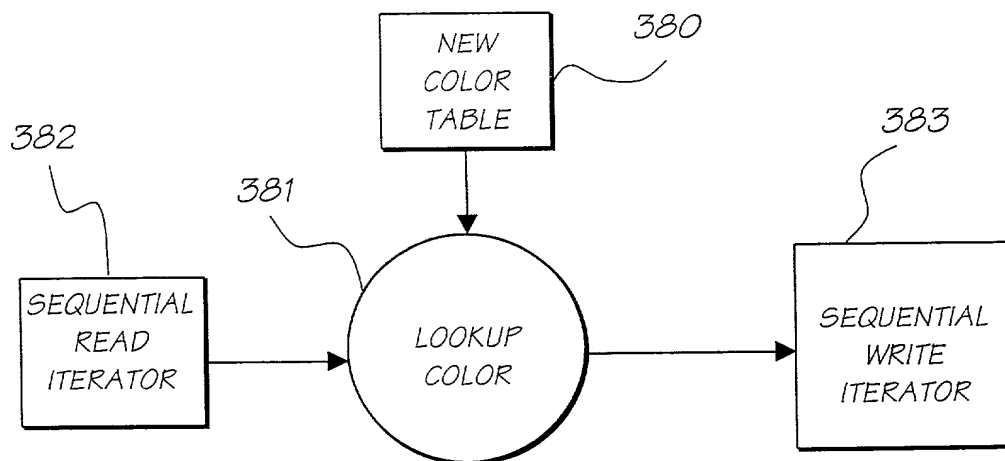


FIG. 93

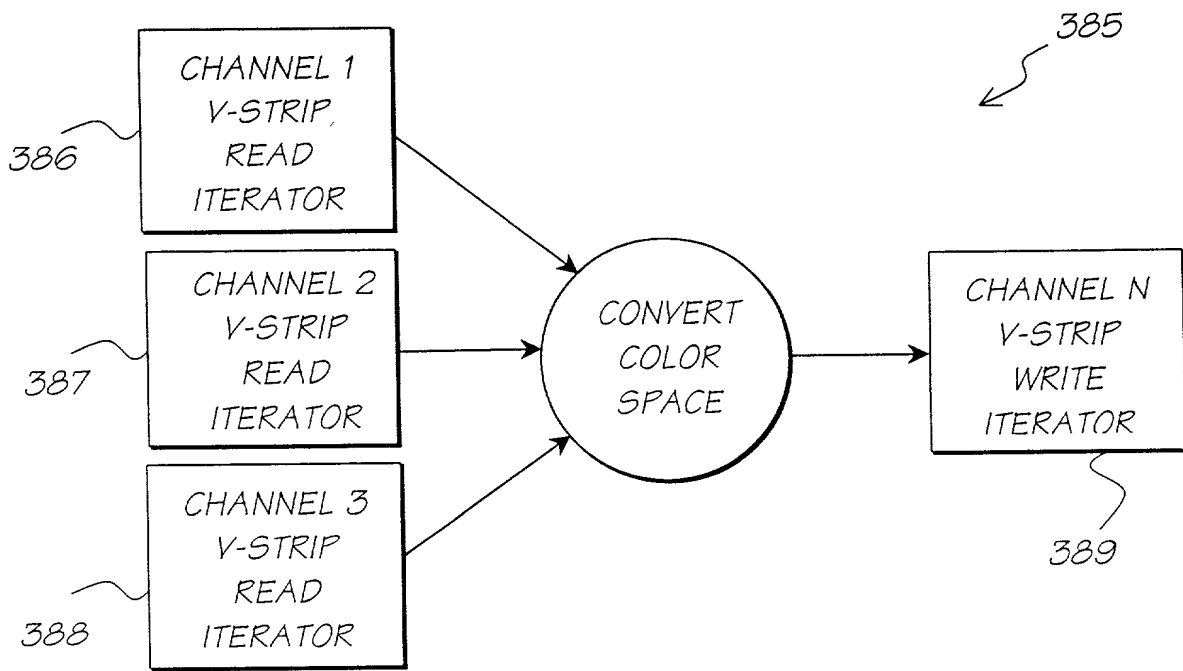


FIG. 94

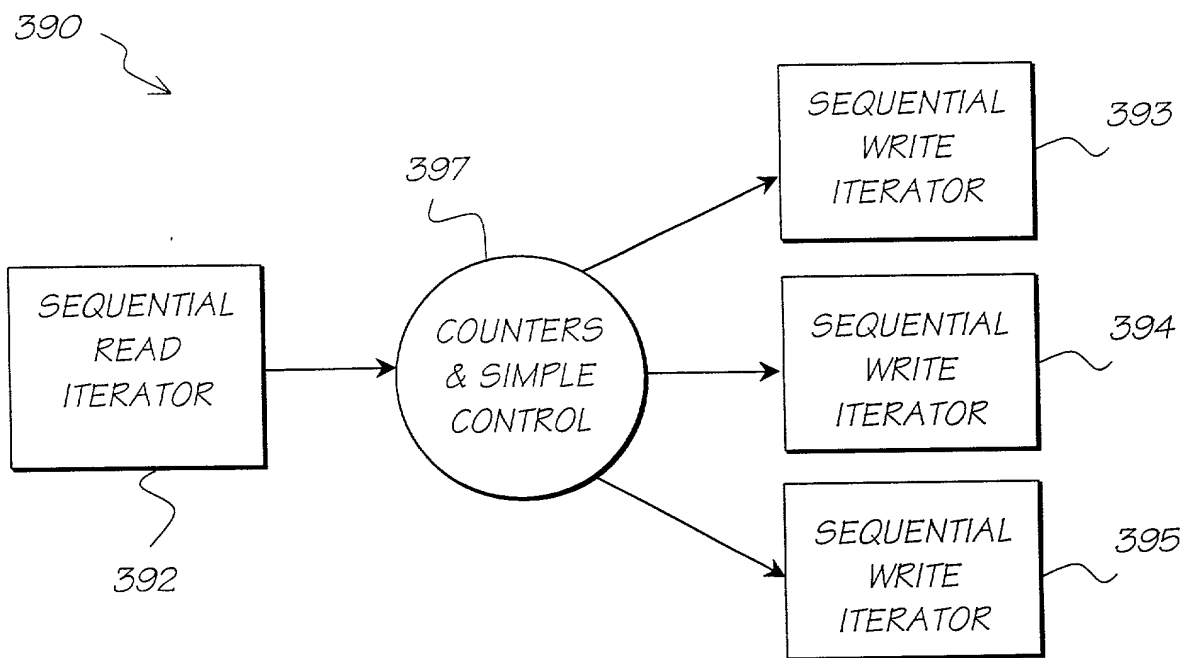


FIG. 101

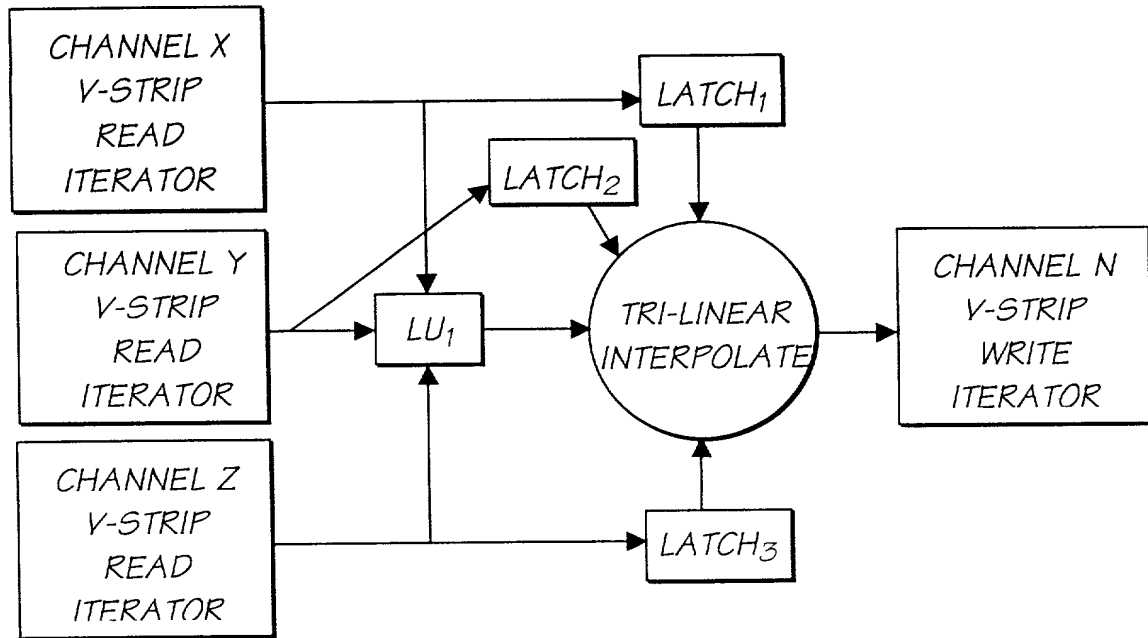


FIG. 95

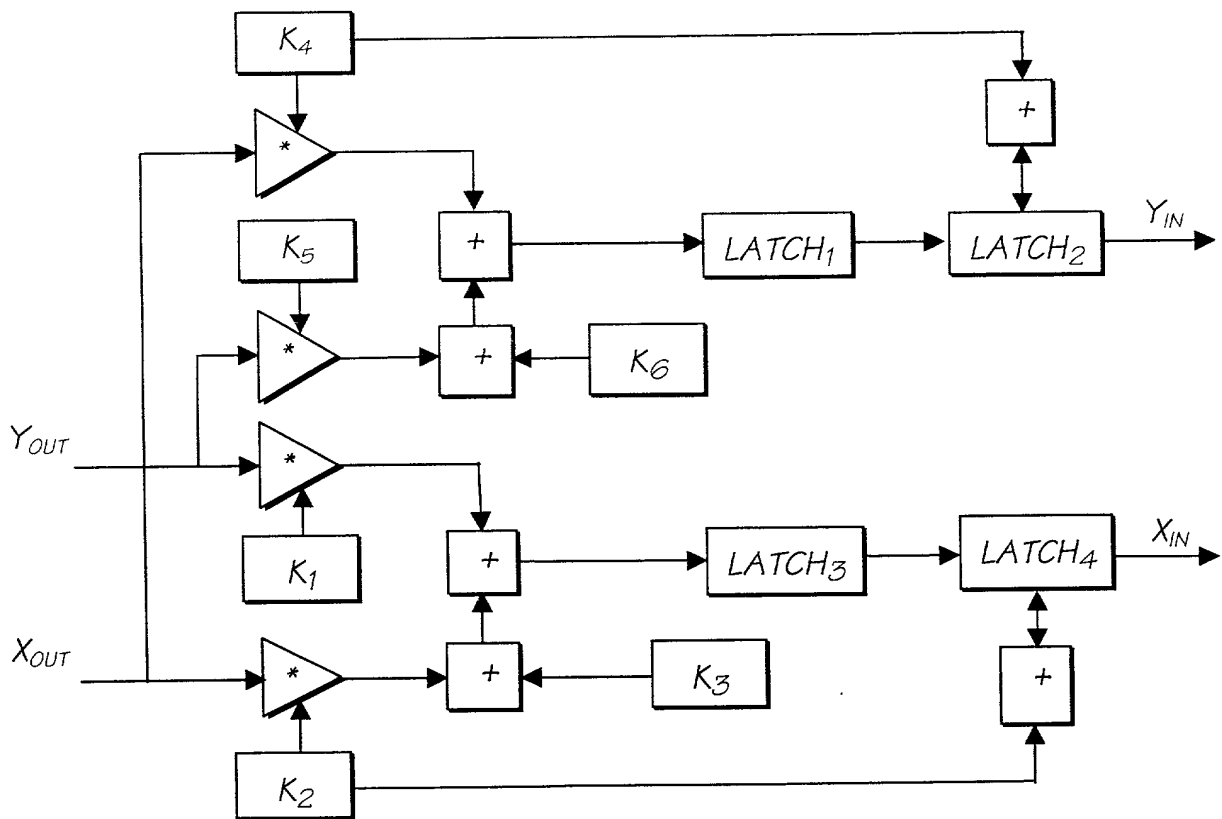


FIG. 96

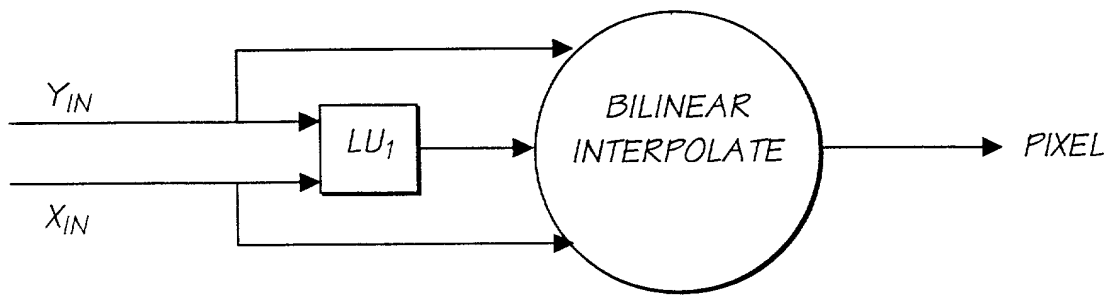


FIG. 97

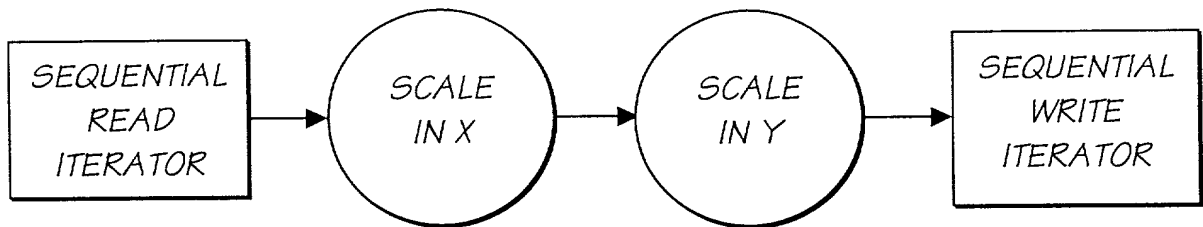


FIG. 98

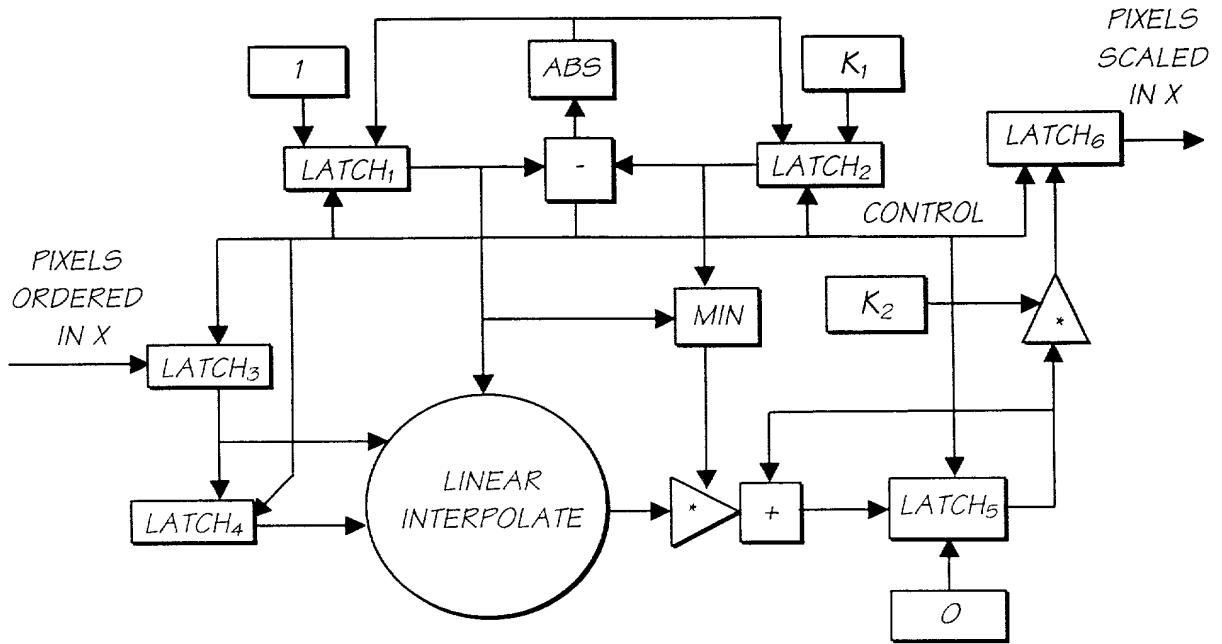


FIG. 99

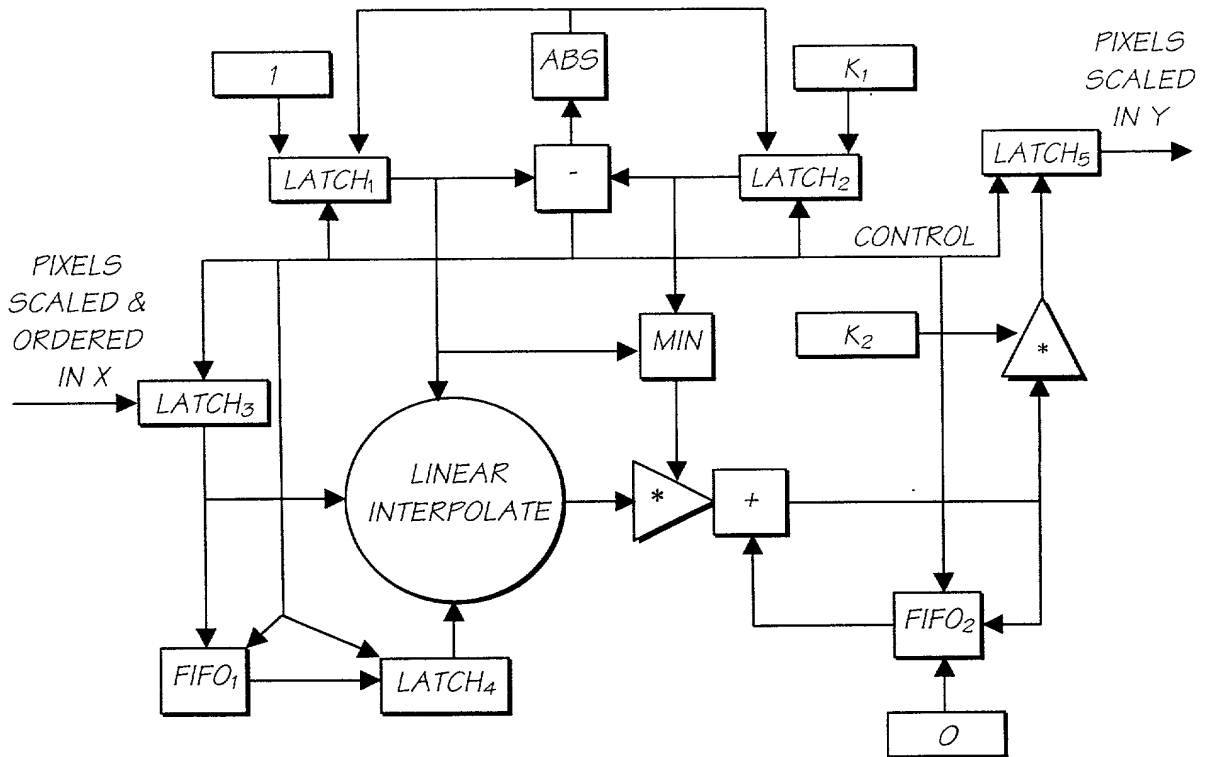


FIG. 100

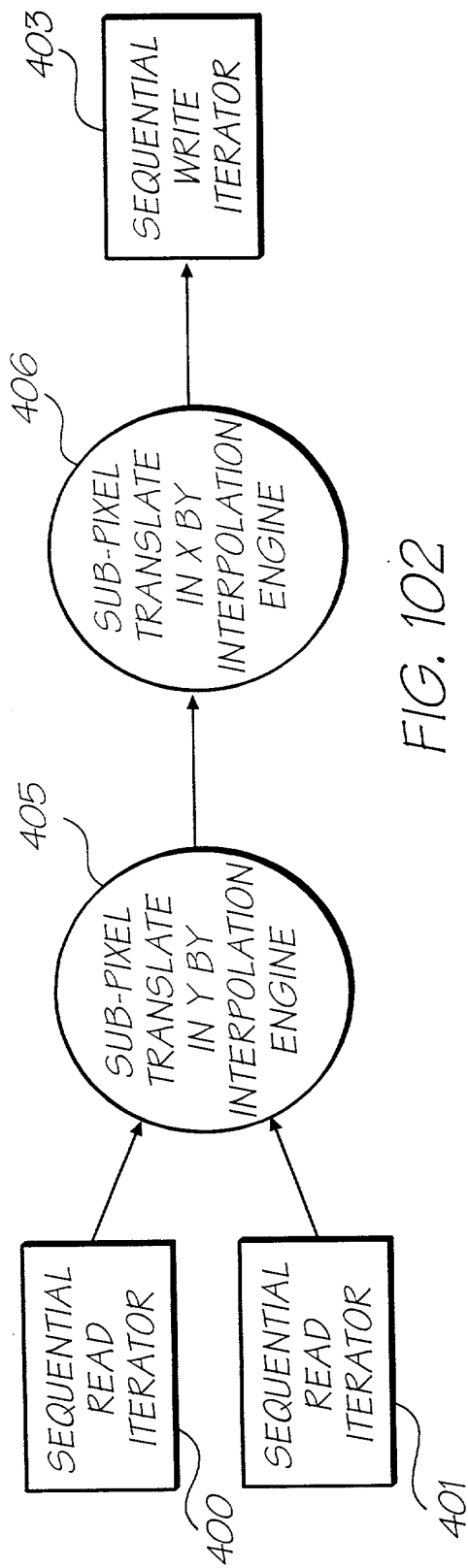


FIG. 102

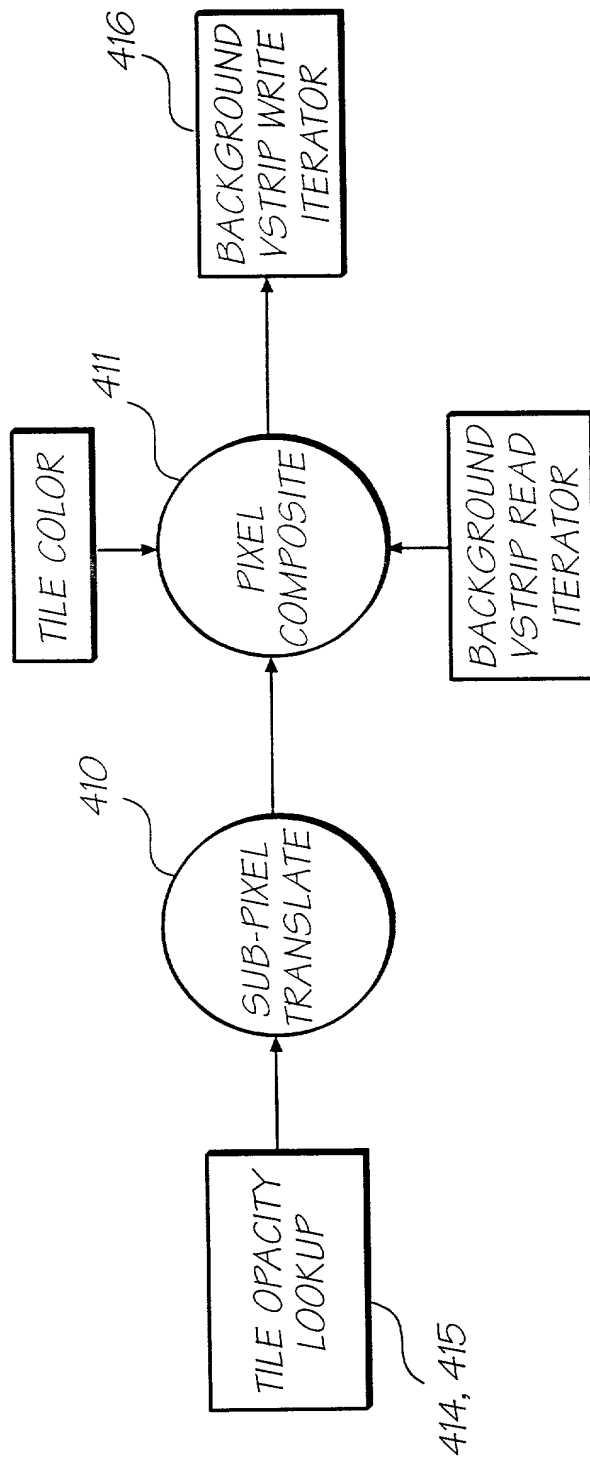


FIG. 103



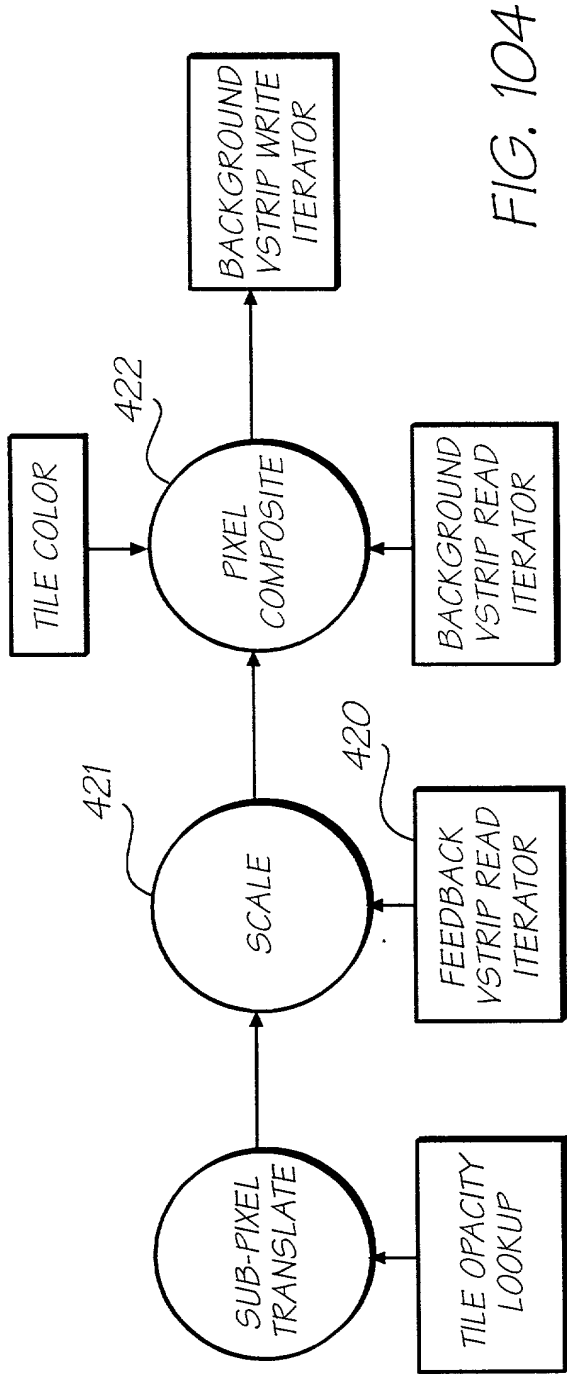


FIG. 104

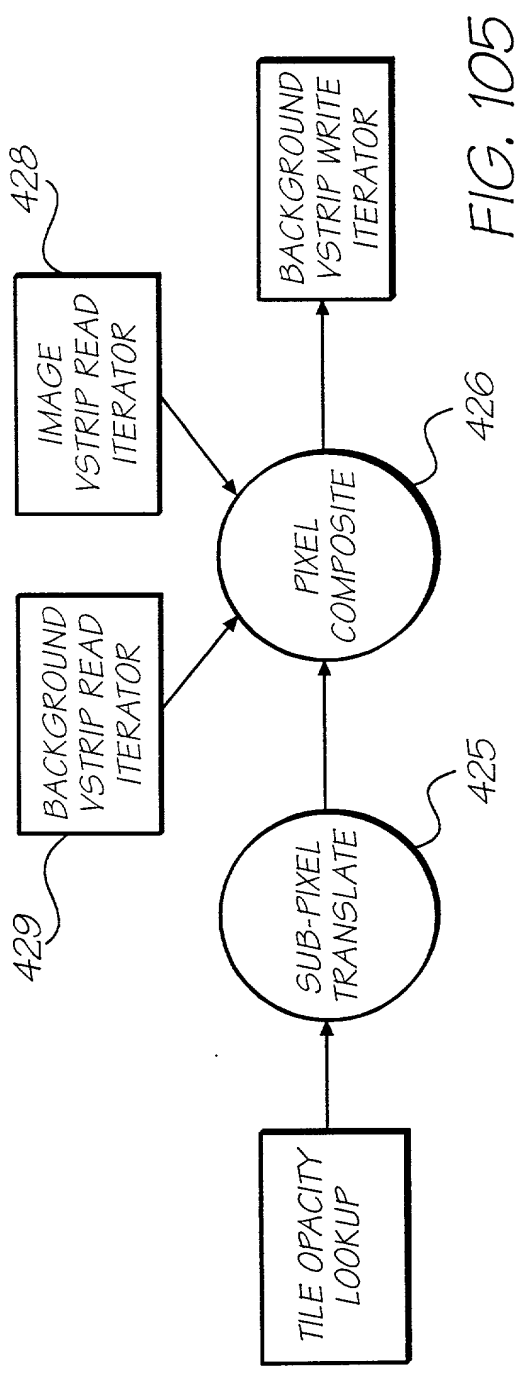


FIG. 105

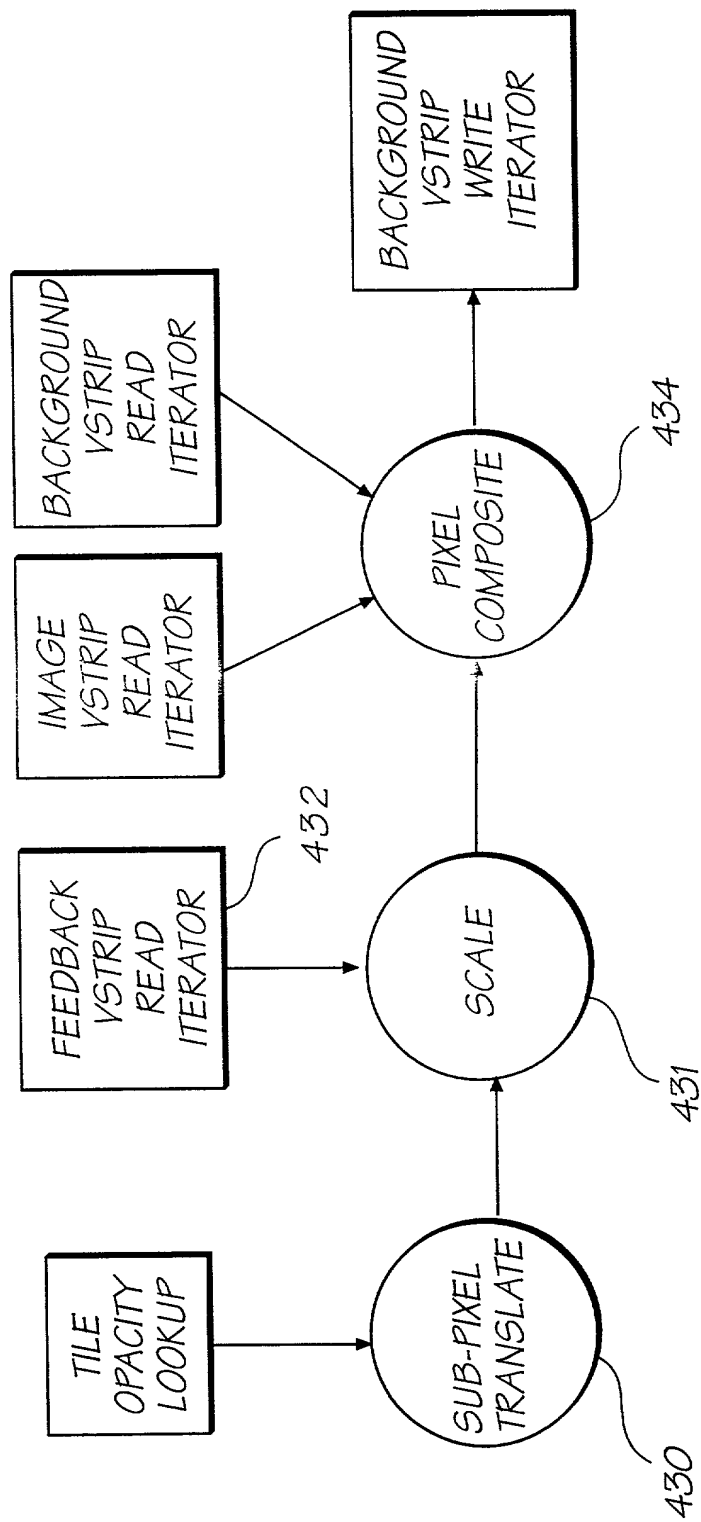


FIG. 106

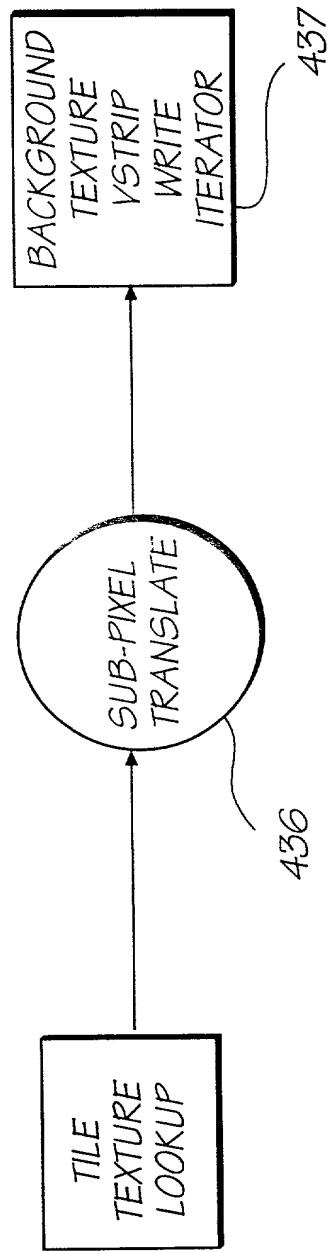


FIG. 107

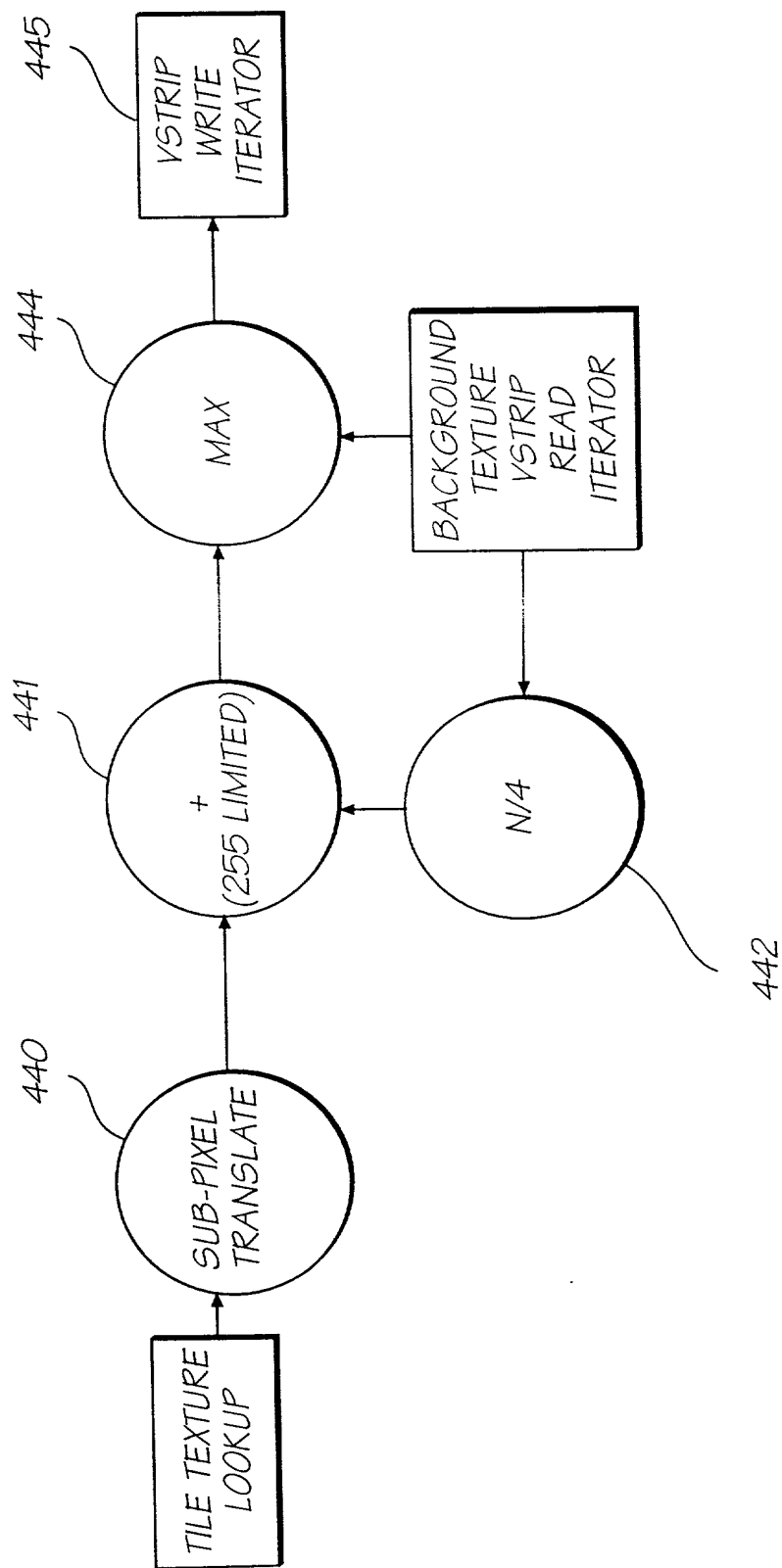


FIG. 108

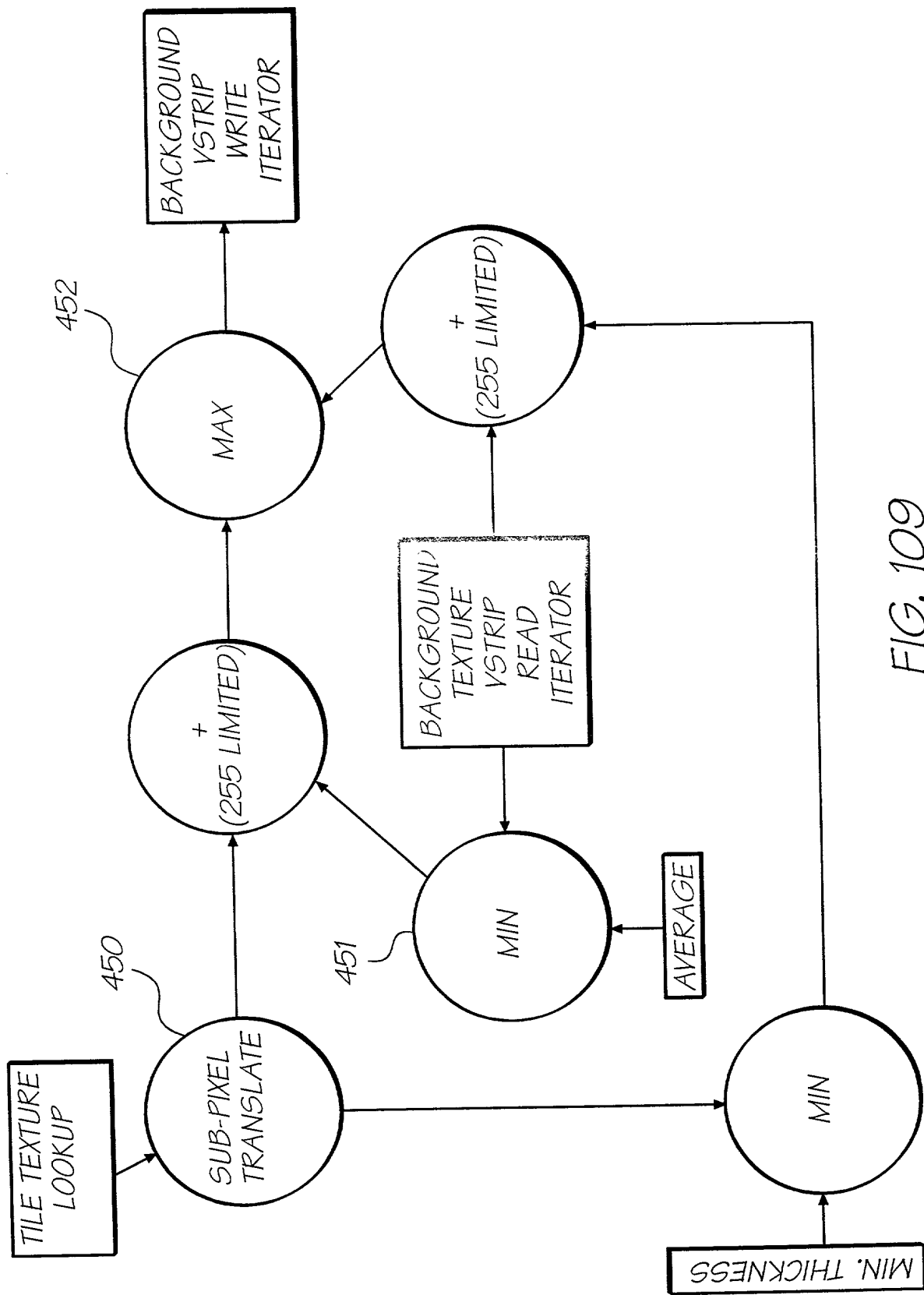


FIG. 109

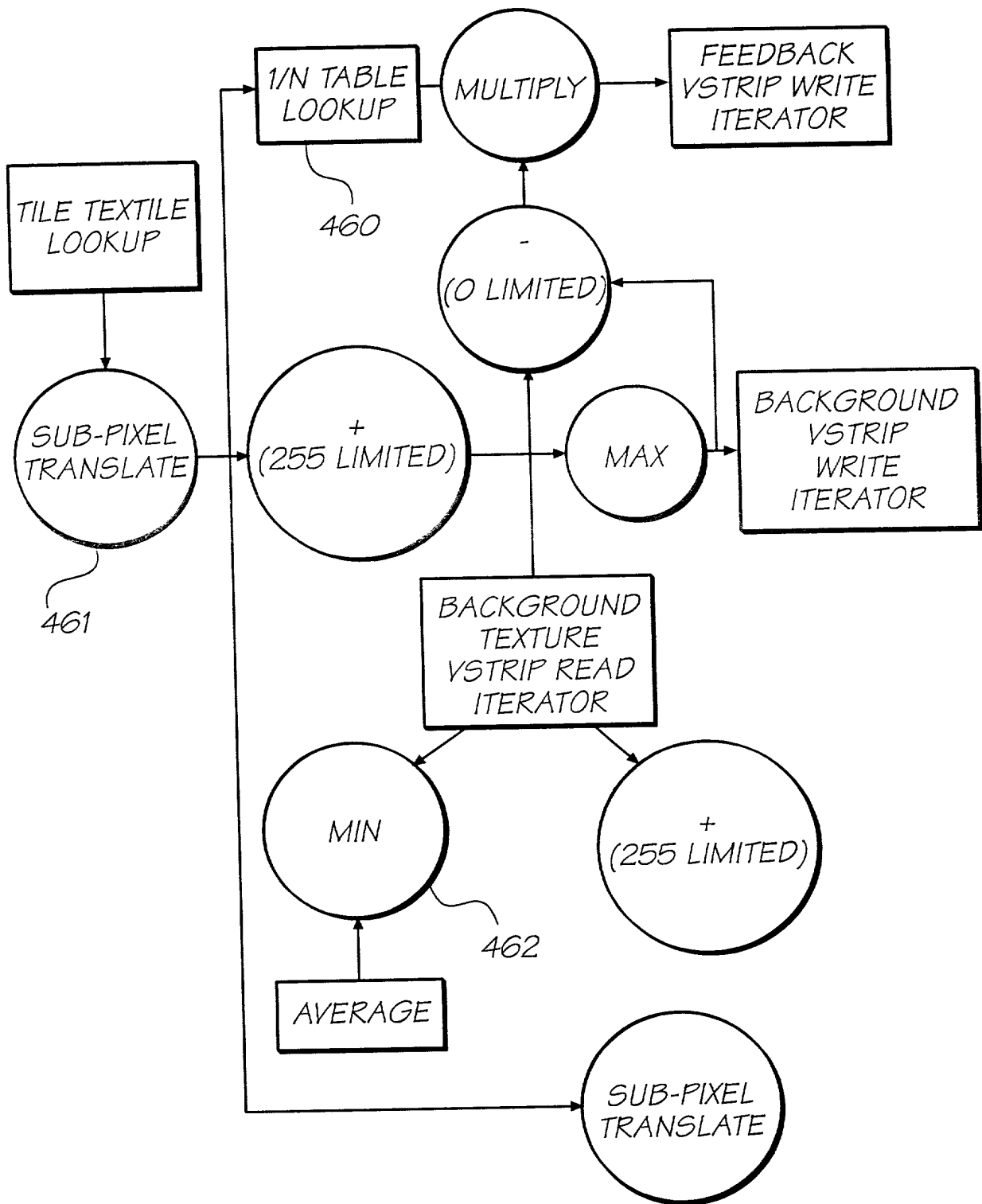


FIG. 110

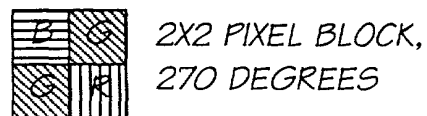
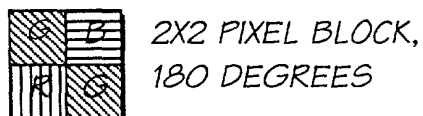
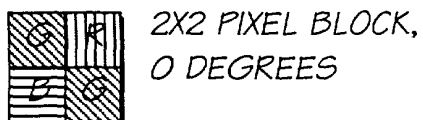


FIG. 111

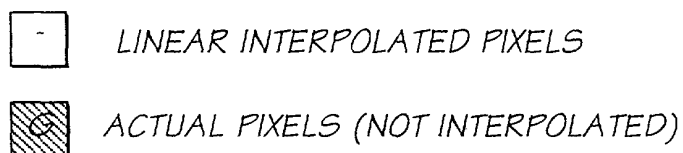
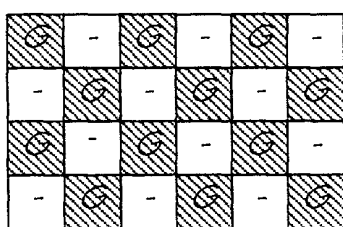


FIG. 112

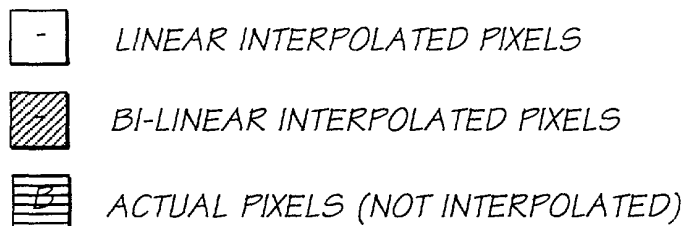
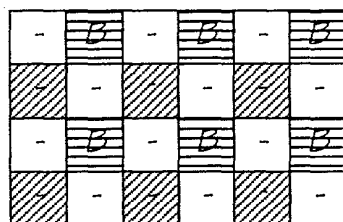


FIG. 113

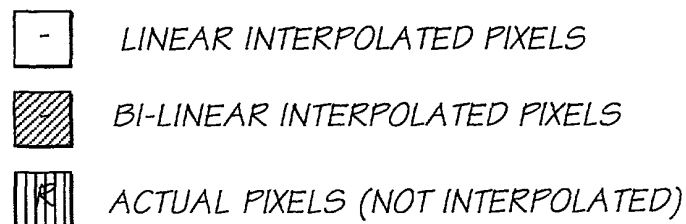
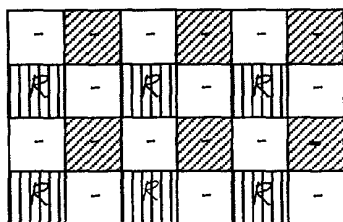


FIG. 114

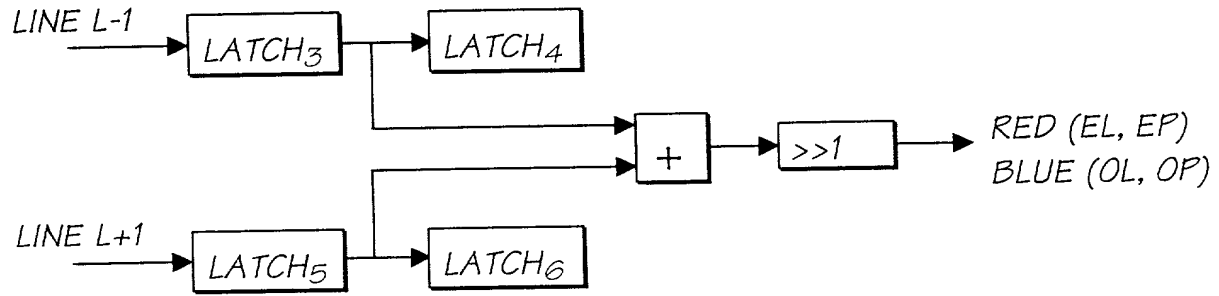
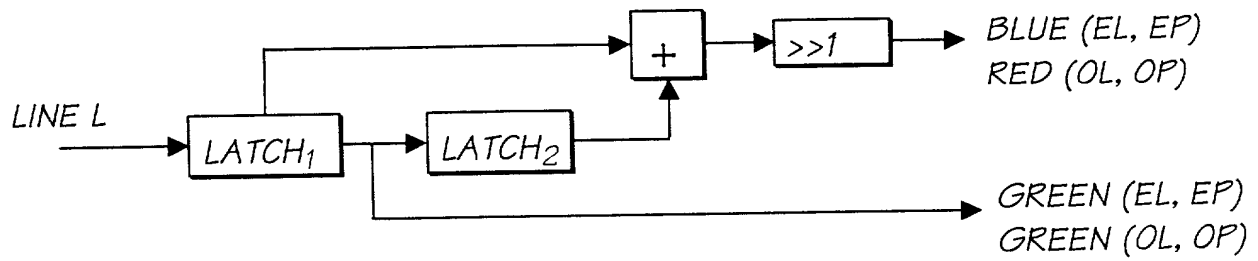


FIG. 115

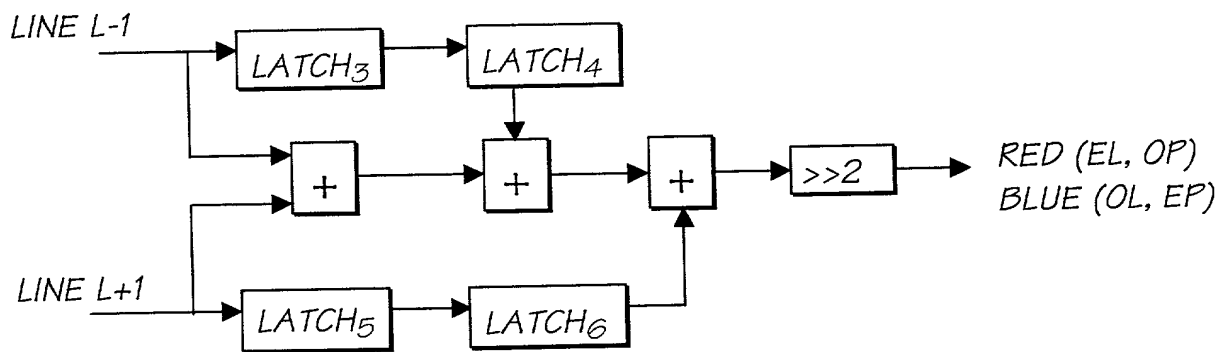
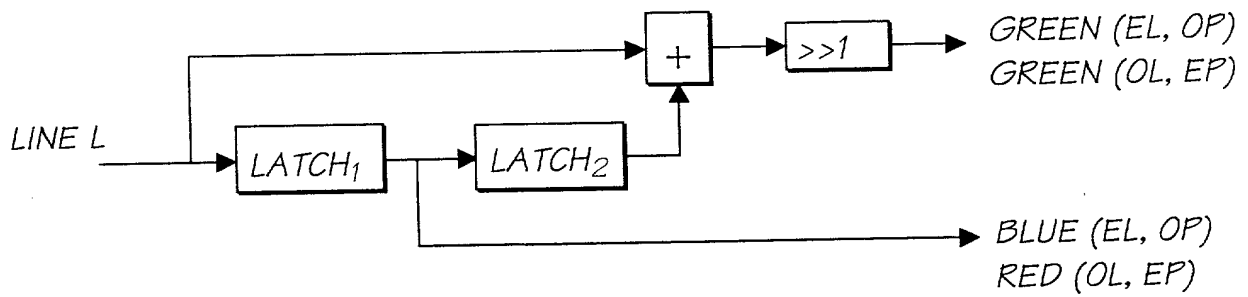


FIG. 116

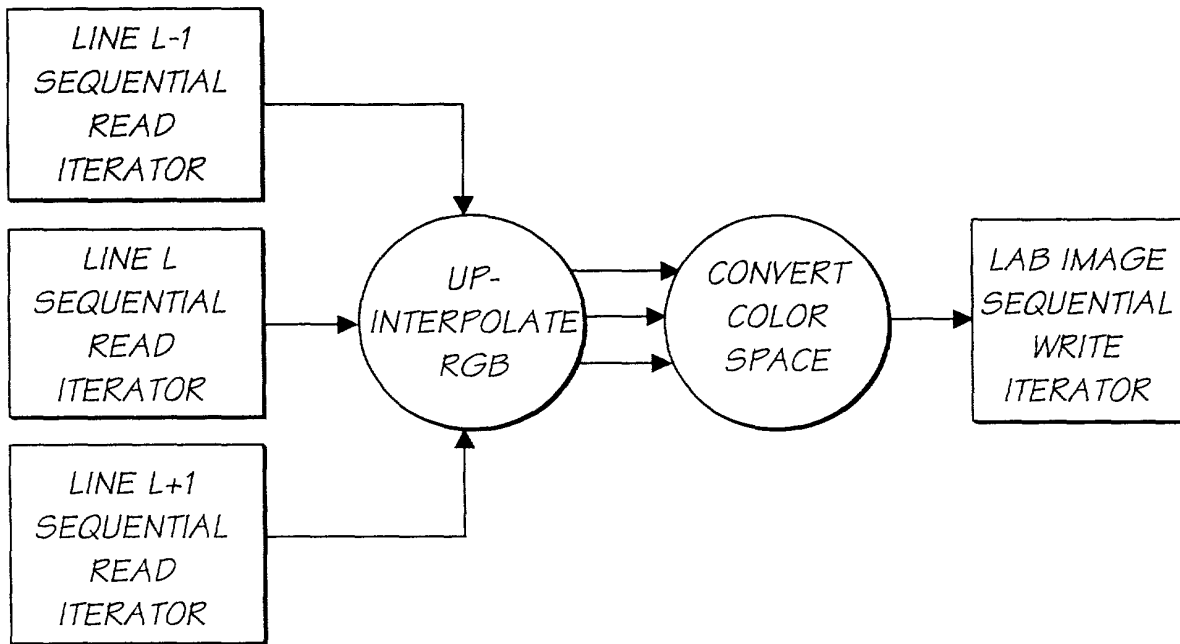


FIG. 117

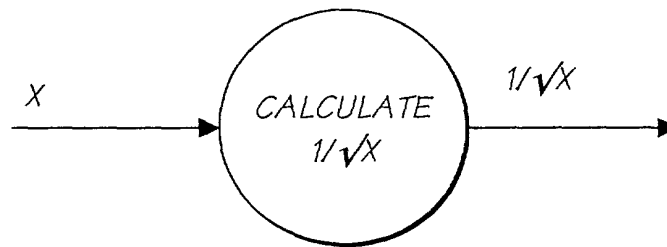


FIG. 118

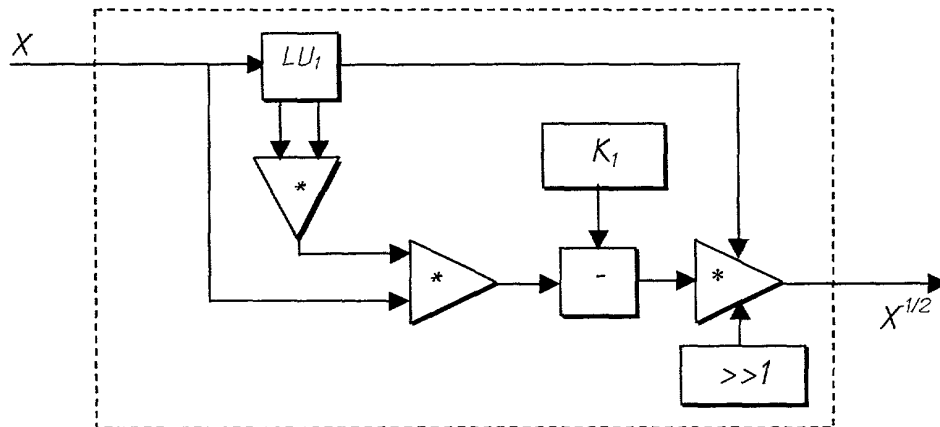


FIG. 119



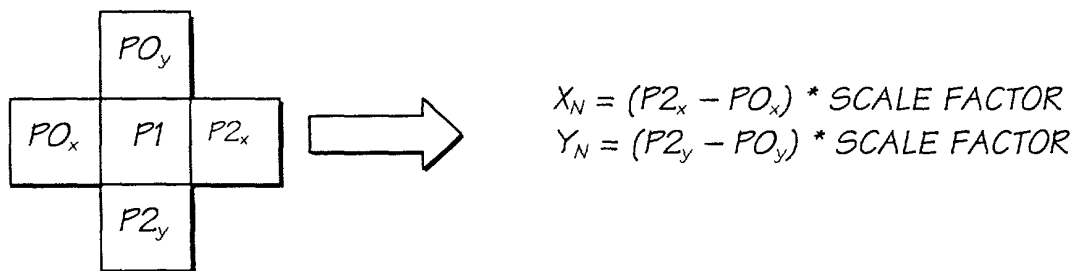


FIG. 120

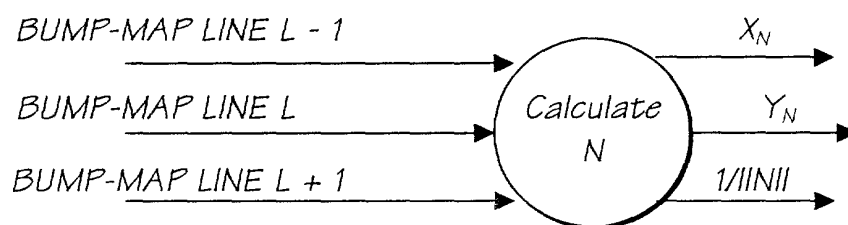


FIG. 121

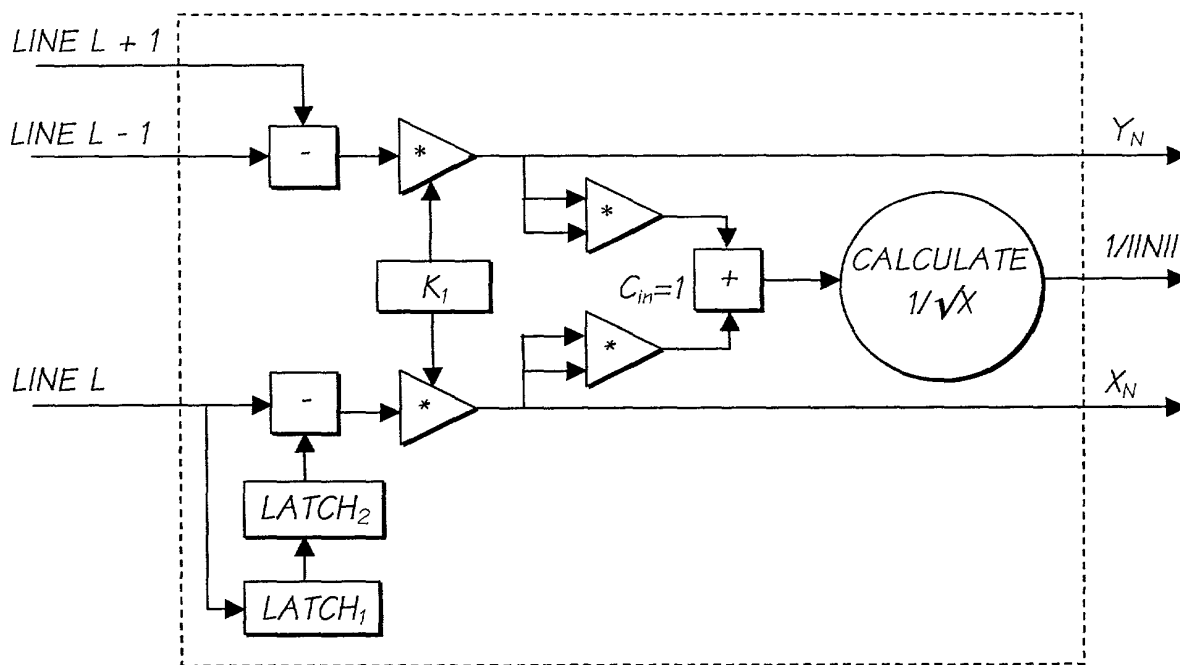


FIG. 122



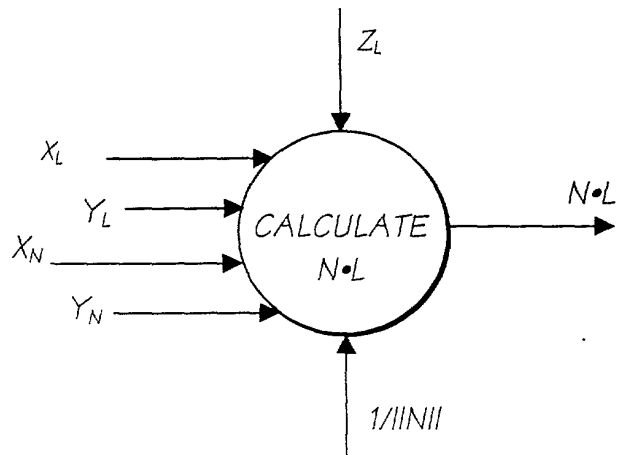


FIG. 126

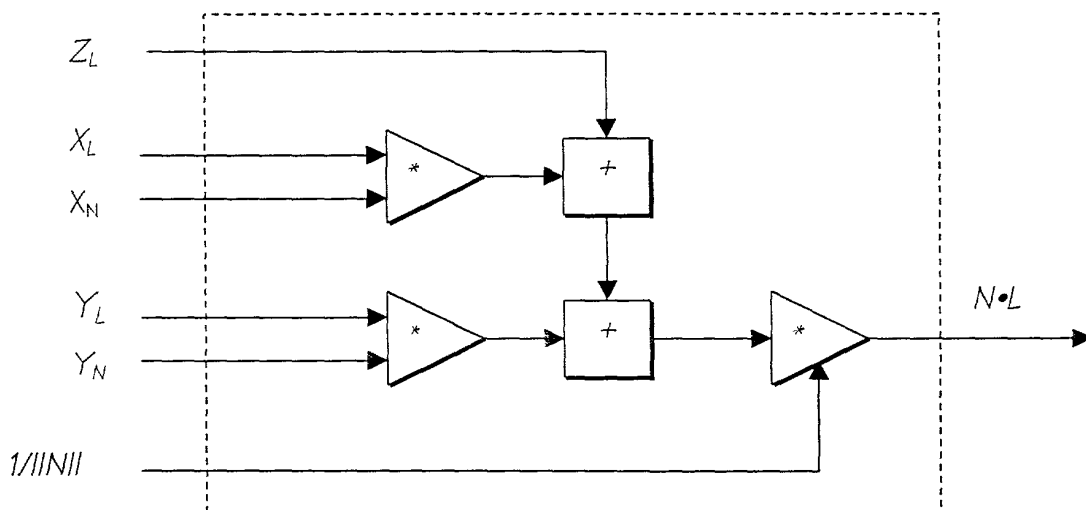


FIG. 127

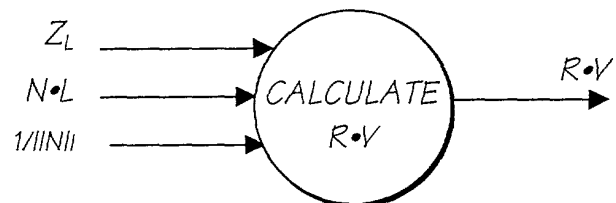


FIG. 128

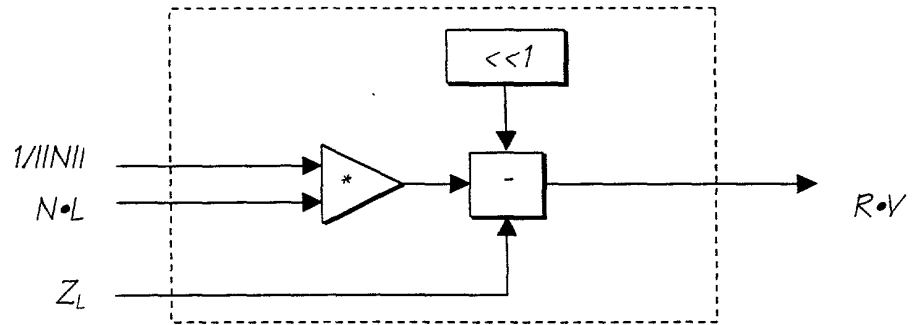


FIG. 129

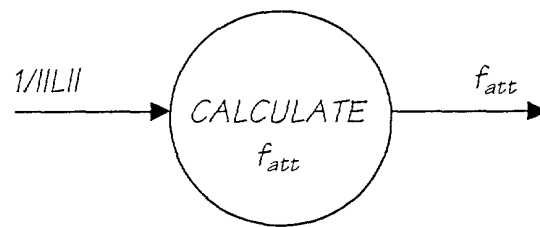


FIG. 130

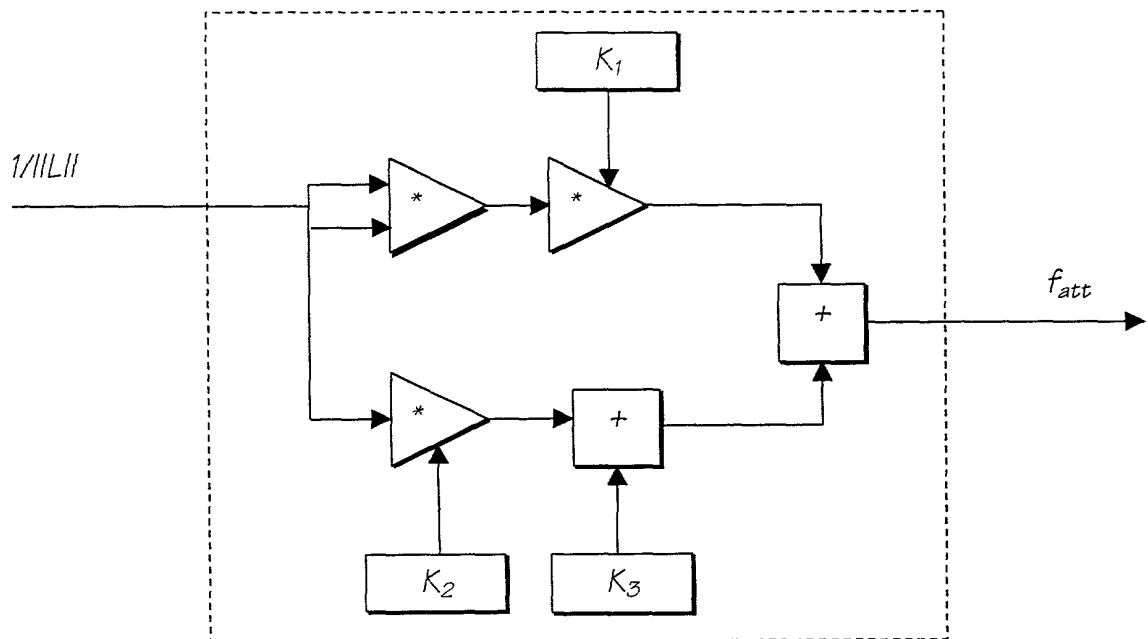
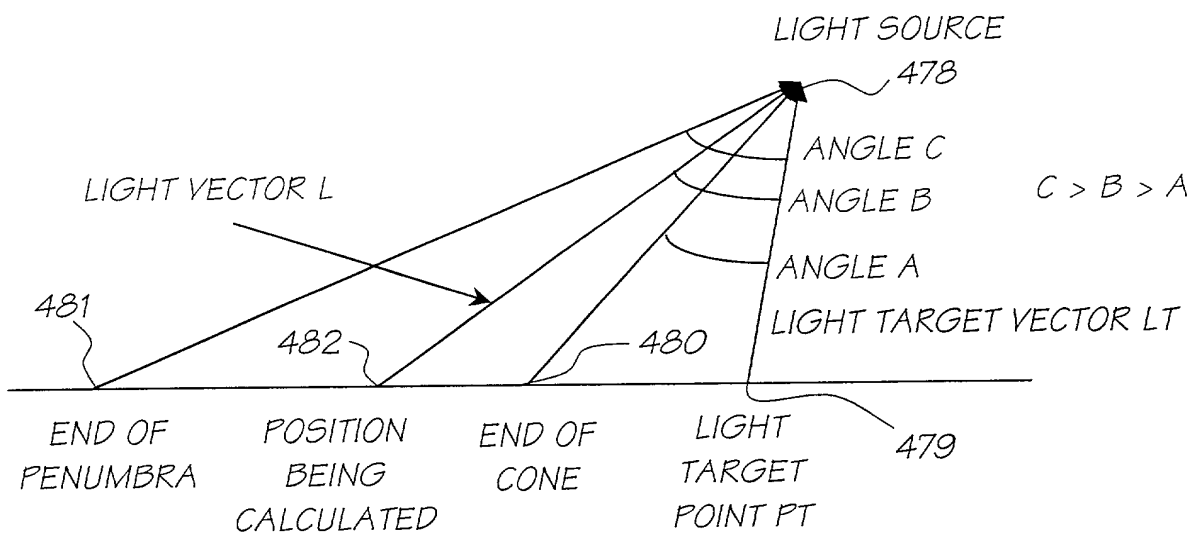
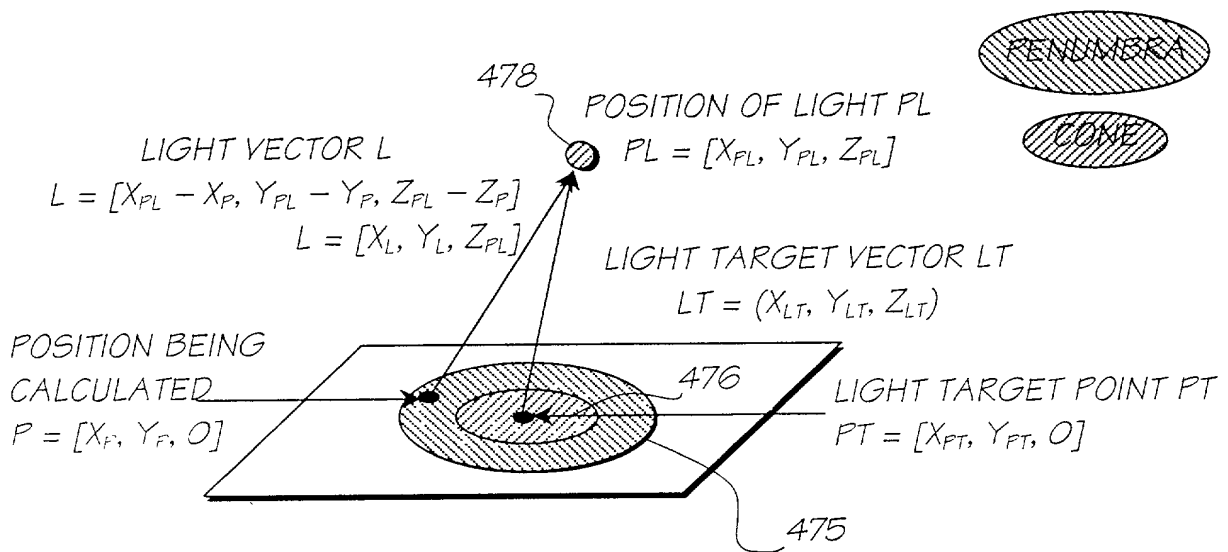
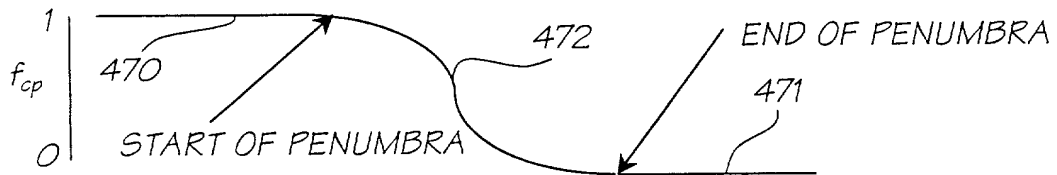


FIG. 131



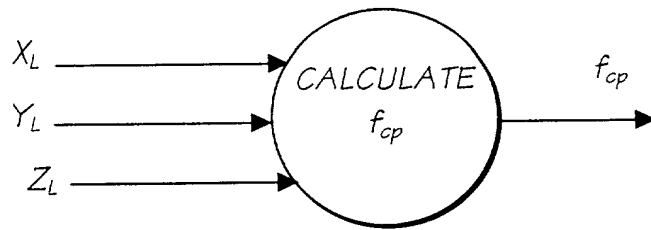


FIG. 135

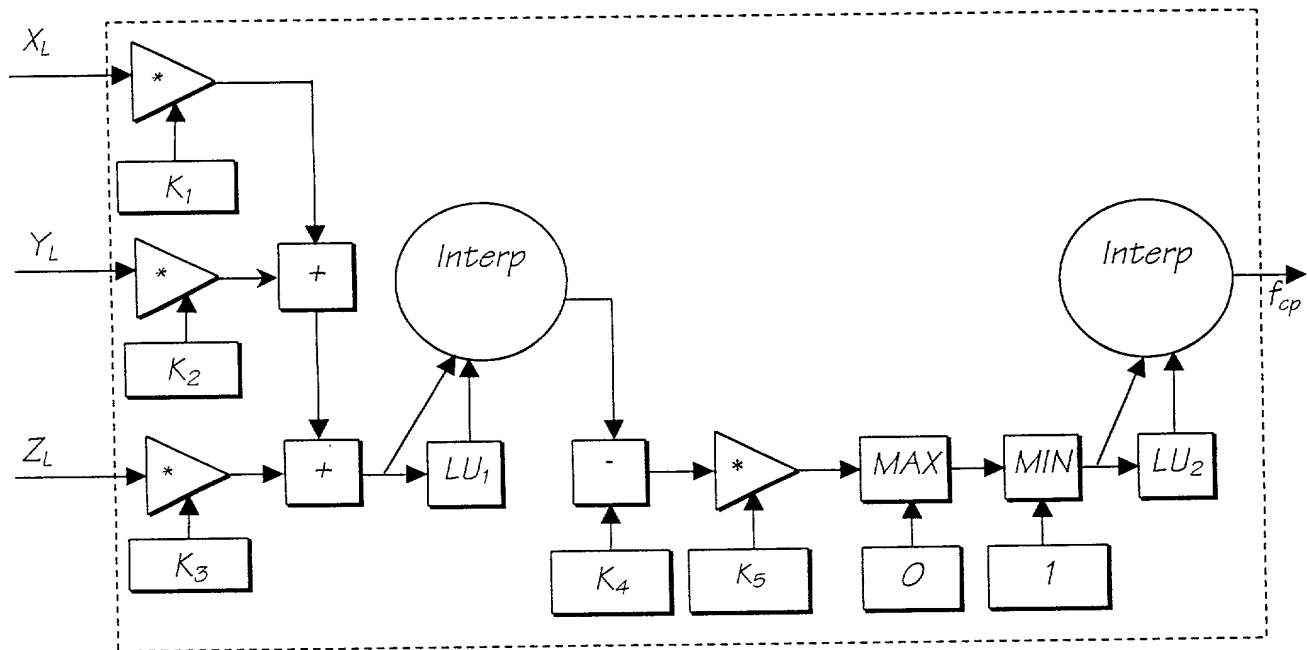


FIG. 136

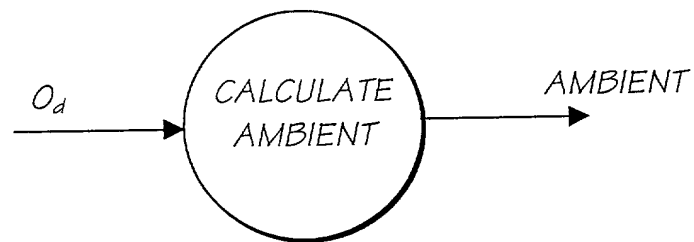


FIG. 137

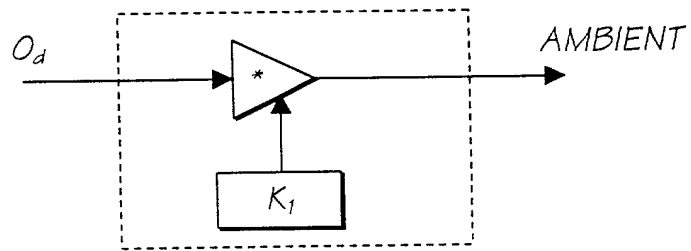


FIG. 138

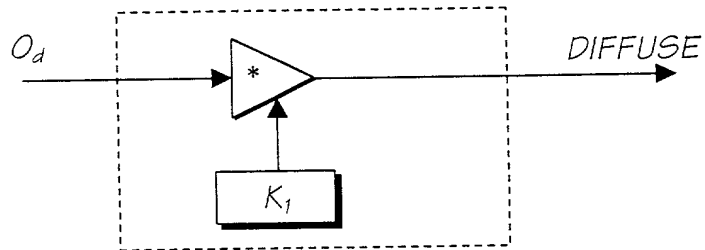


FIG. 139

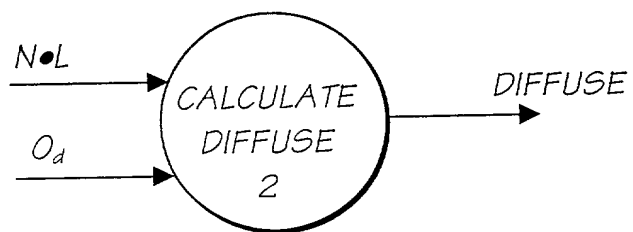


FIG. 140

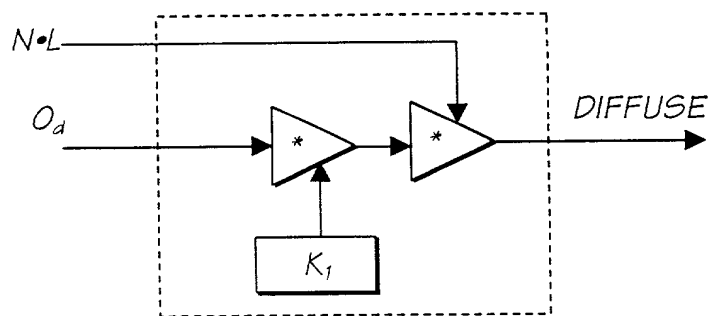


FIG. 141

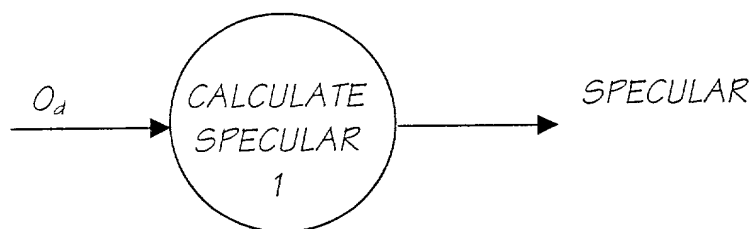


FIG. 142

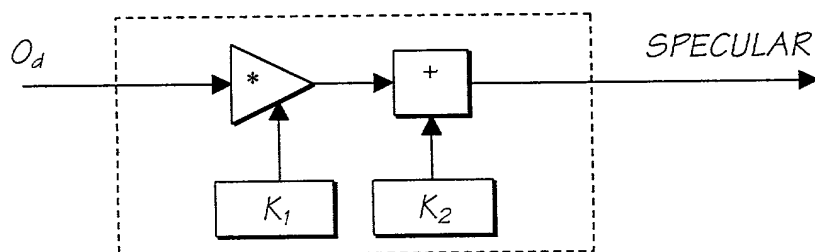


FIG. 143



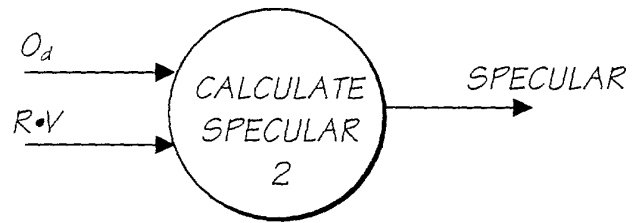


FIG. 144

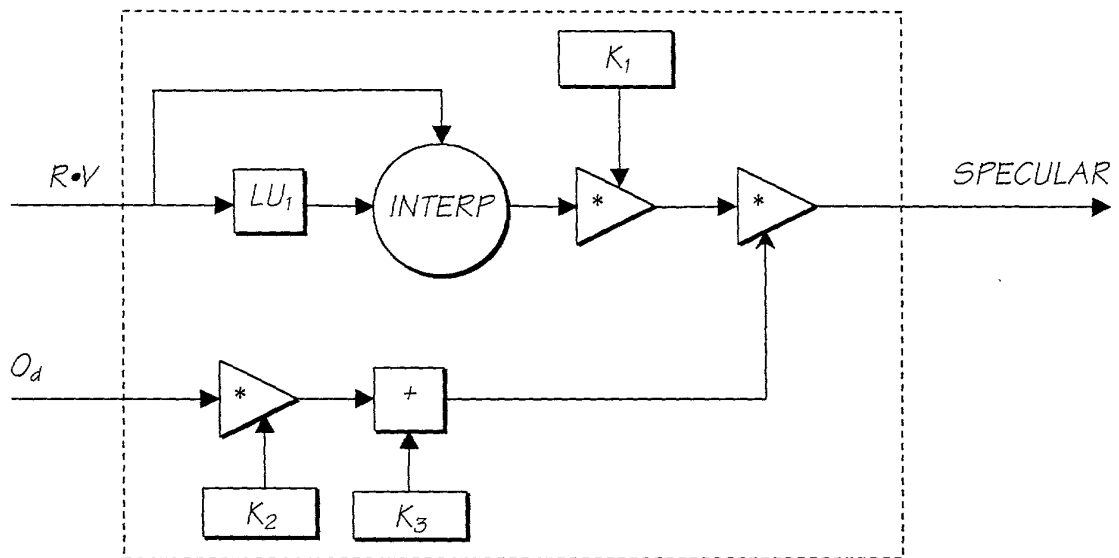


FIG. 145

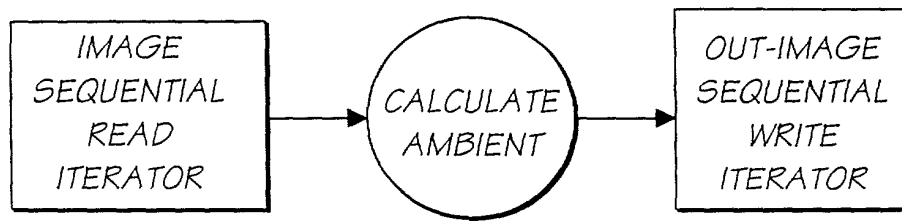


FIG. 146

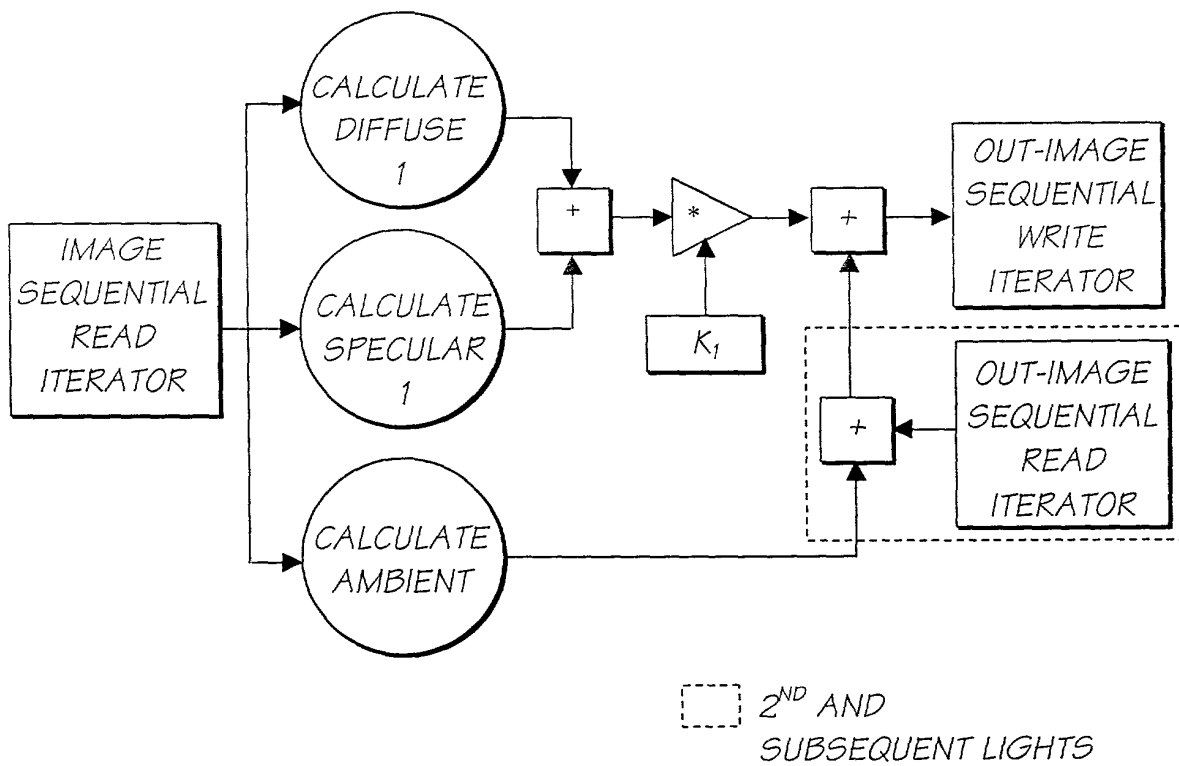


FIG. 147

2<sup>ND</sup> AND SUBSEQUENT LIGHTS

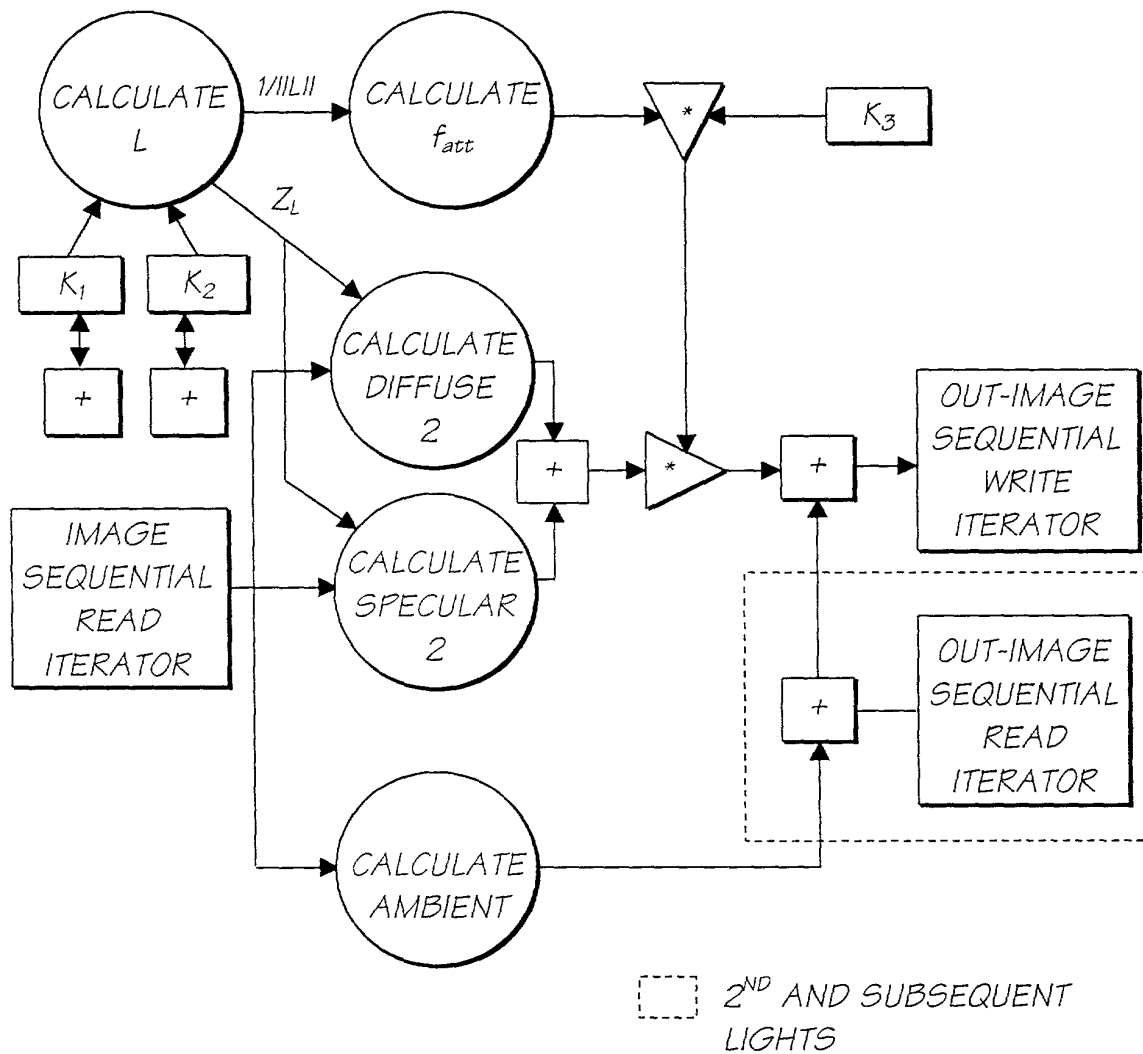
[illegible]

FIG. 149

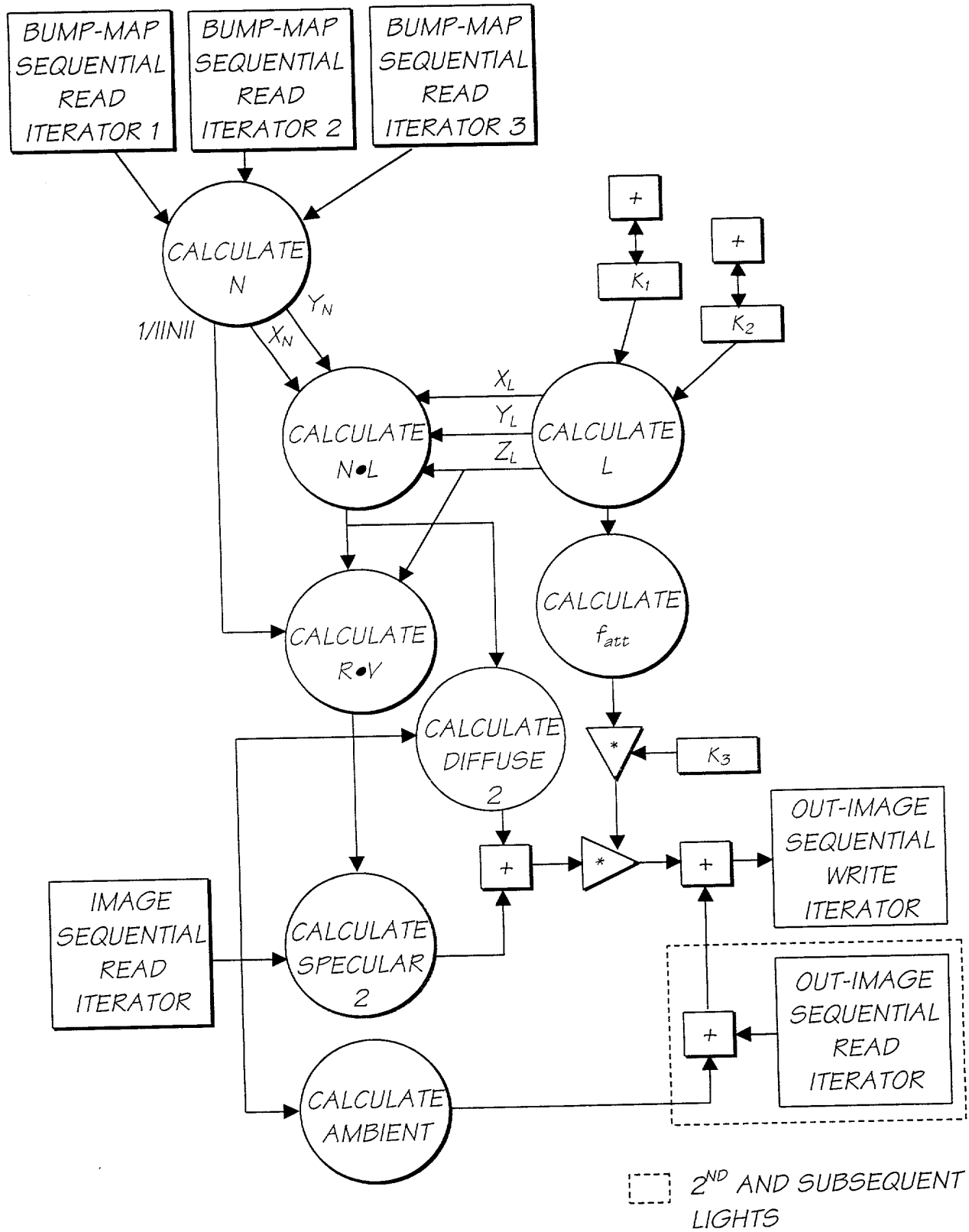


FIG. 150

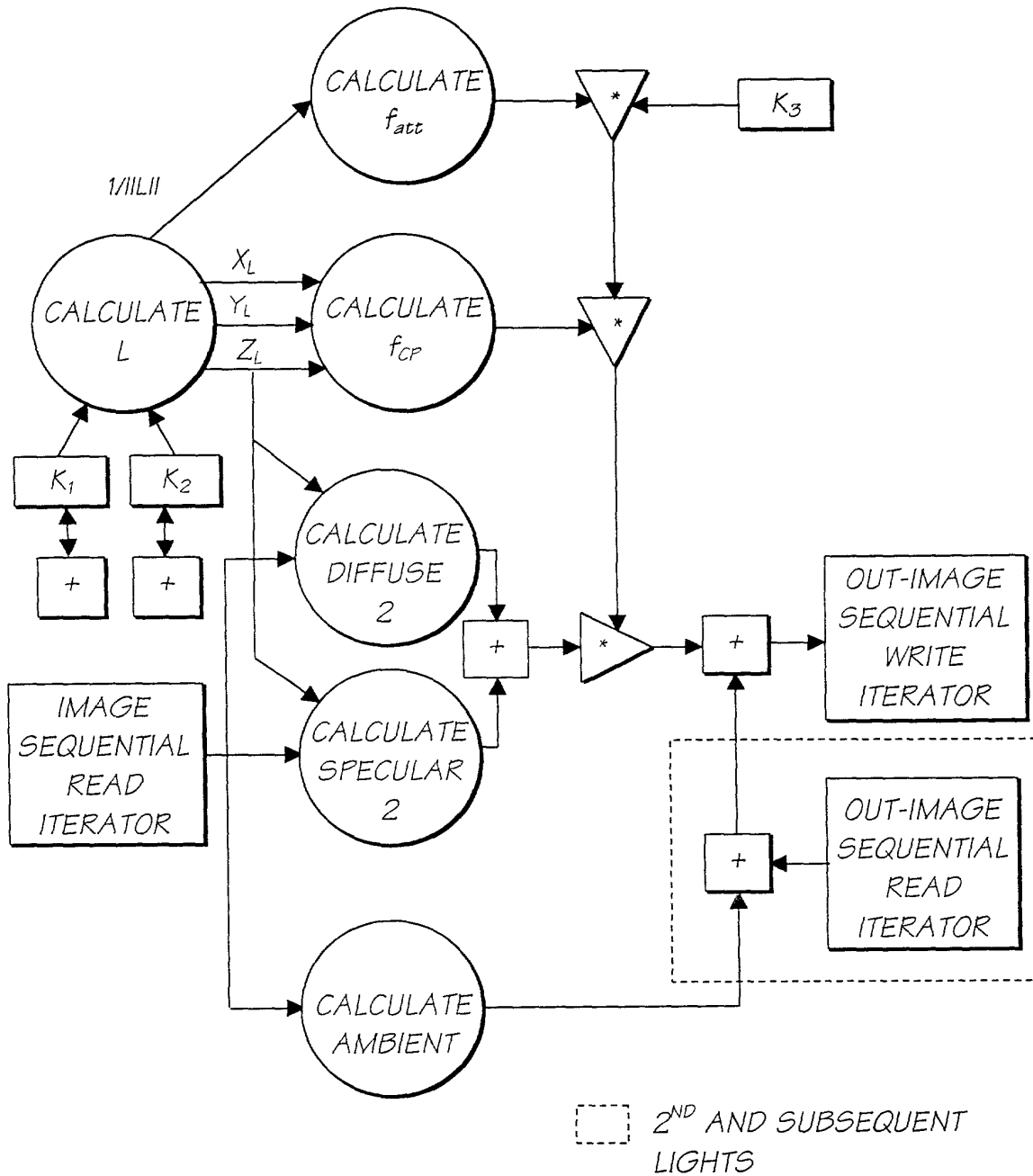
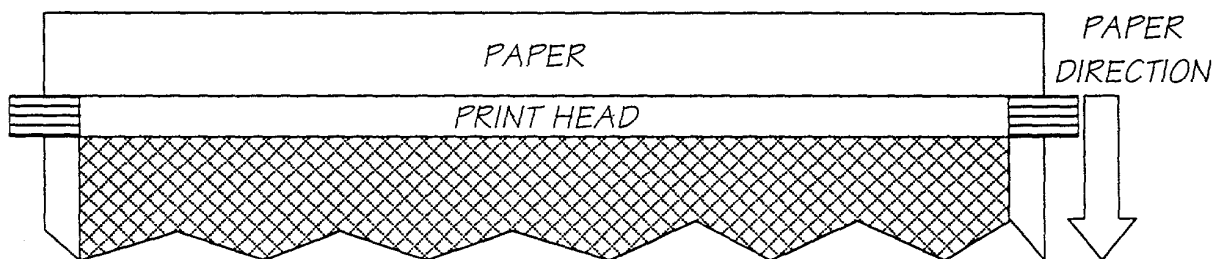


FIG. 151

☐ 2<sup>ND</sup> AND SUBSEQUENT LIGHTS



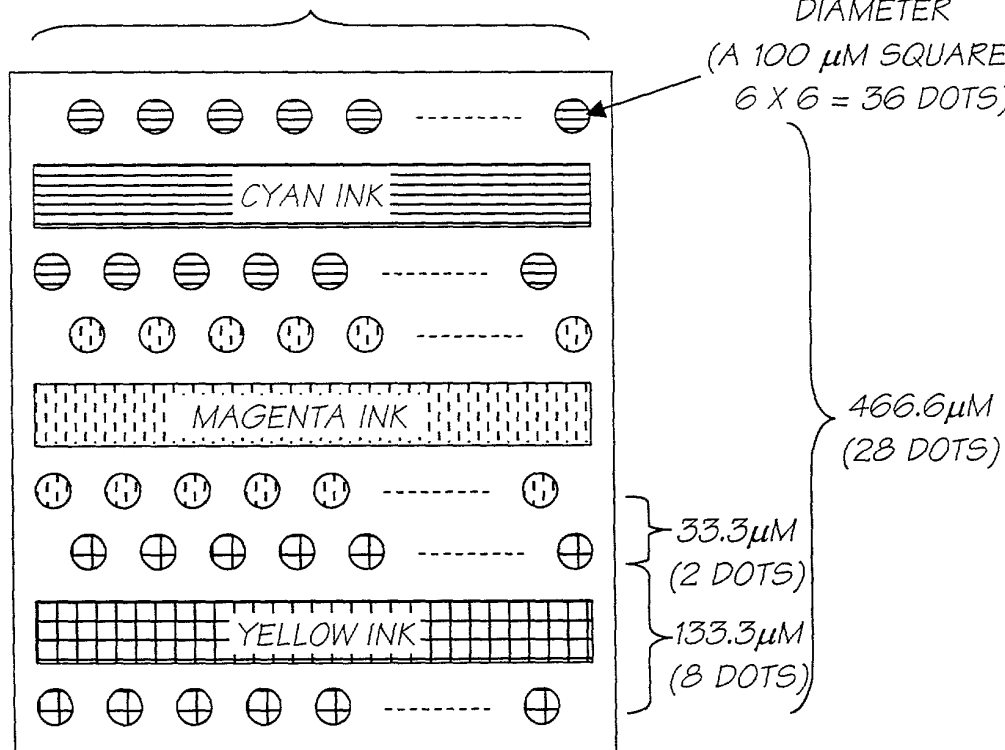
8 PRINT HEAD SEGMENTS IN PRINT HEAD

SEGMENT	SEGMENT	SEGMENT	SEGMENT	SEGMENT	SEGMENT	SEGMENT	SEGMENT
0	1	2	3	4	5	6	7

1250  $\mu\text{M}$  (375 DOTS PER SEGMENT ROW,  
OR 750 DOTS PER SEGMENT COLOR)

1 DOT IS 16.6  $\mu\text{M}$  IN  
DIAMETER

(A 100  $\mu\text{M}$  SQUARE =  
6 X 6 = 36 DOTS)



EACH SEGMENT CONTAINS 6 ROWS OF DOTS:  
ODD AND EVEN CYAN, MAGENTA, AND YELLOW.

FIG. 153



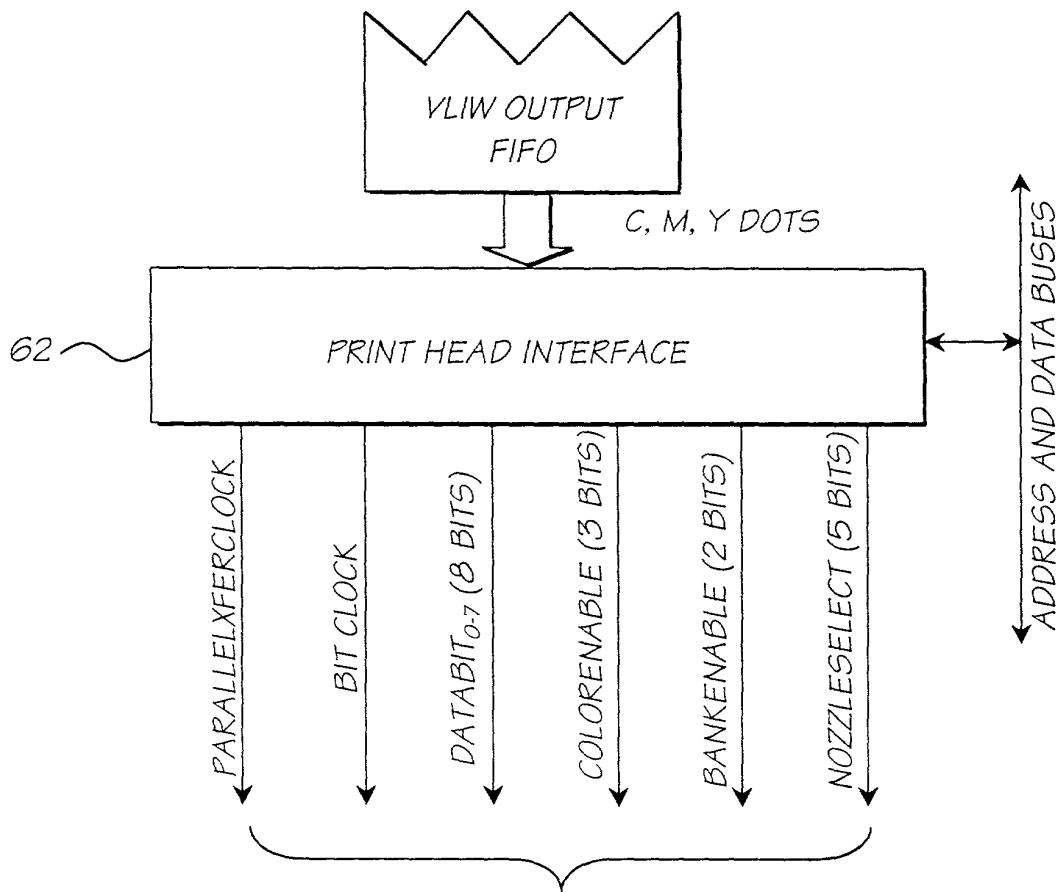


FIG. 154

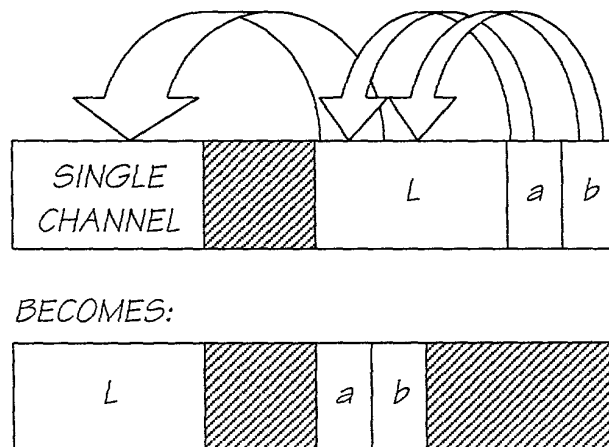
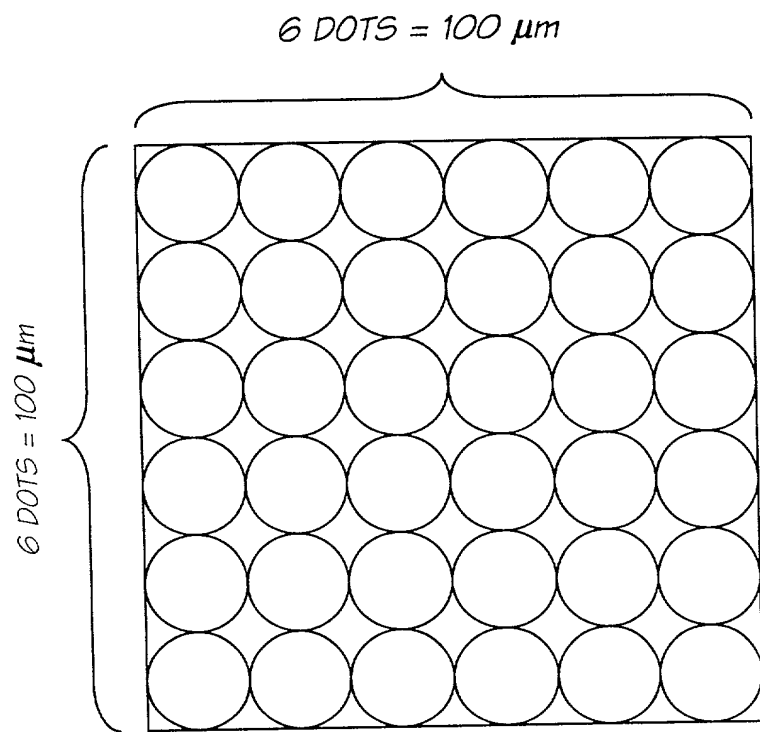


FIG. 155



1 PIXEL = 6 X 6 DOTS  
 = 36 DOTS  
 = 100 μm SQUARE

FIG. 156

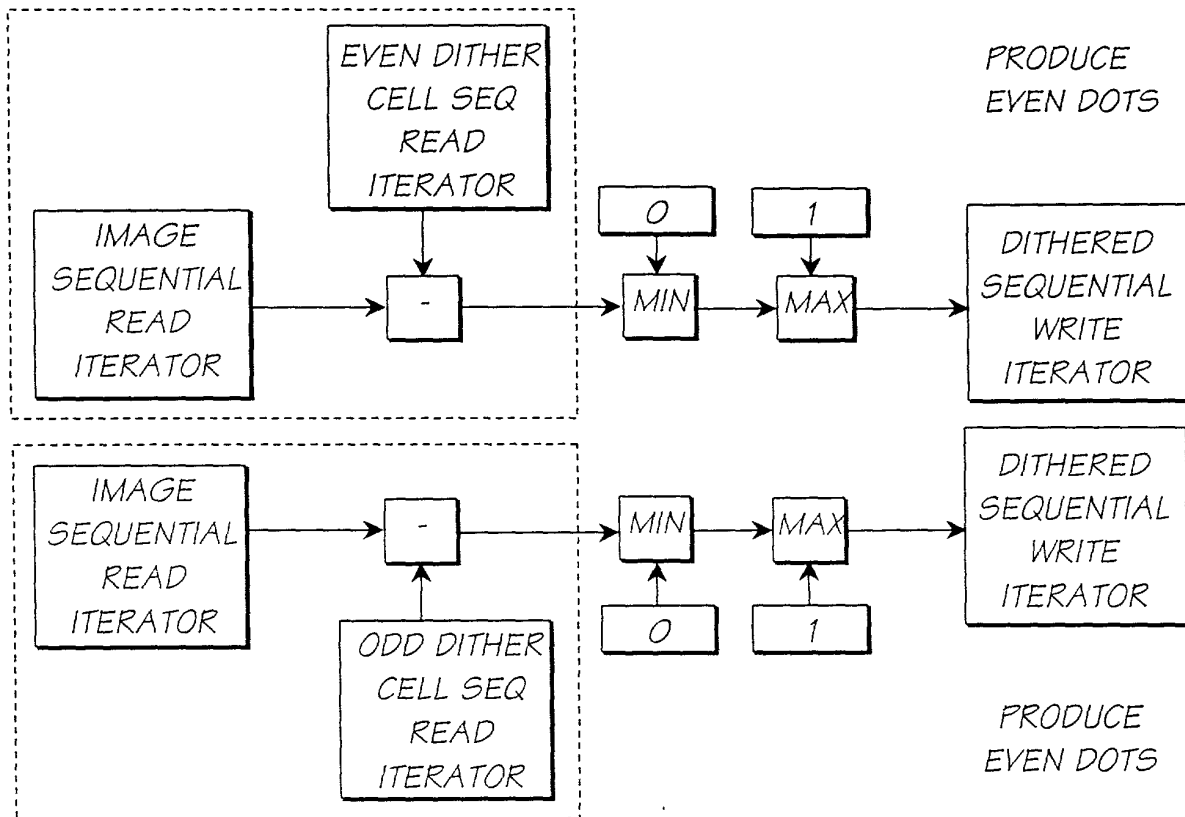


FIG. 157

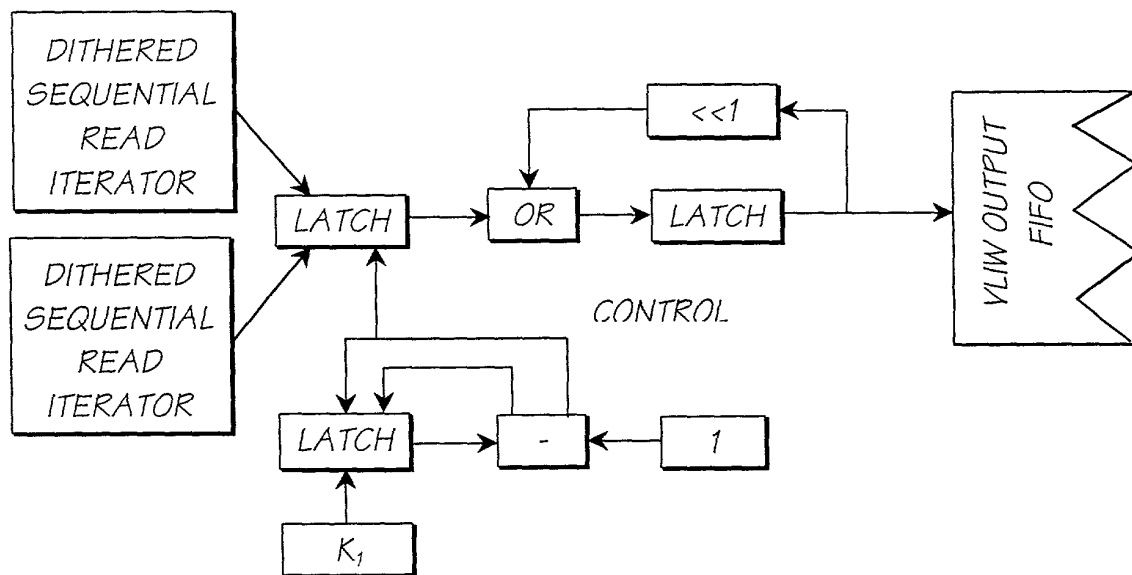


FIG. 158

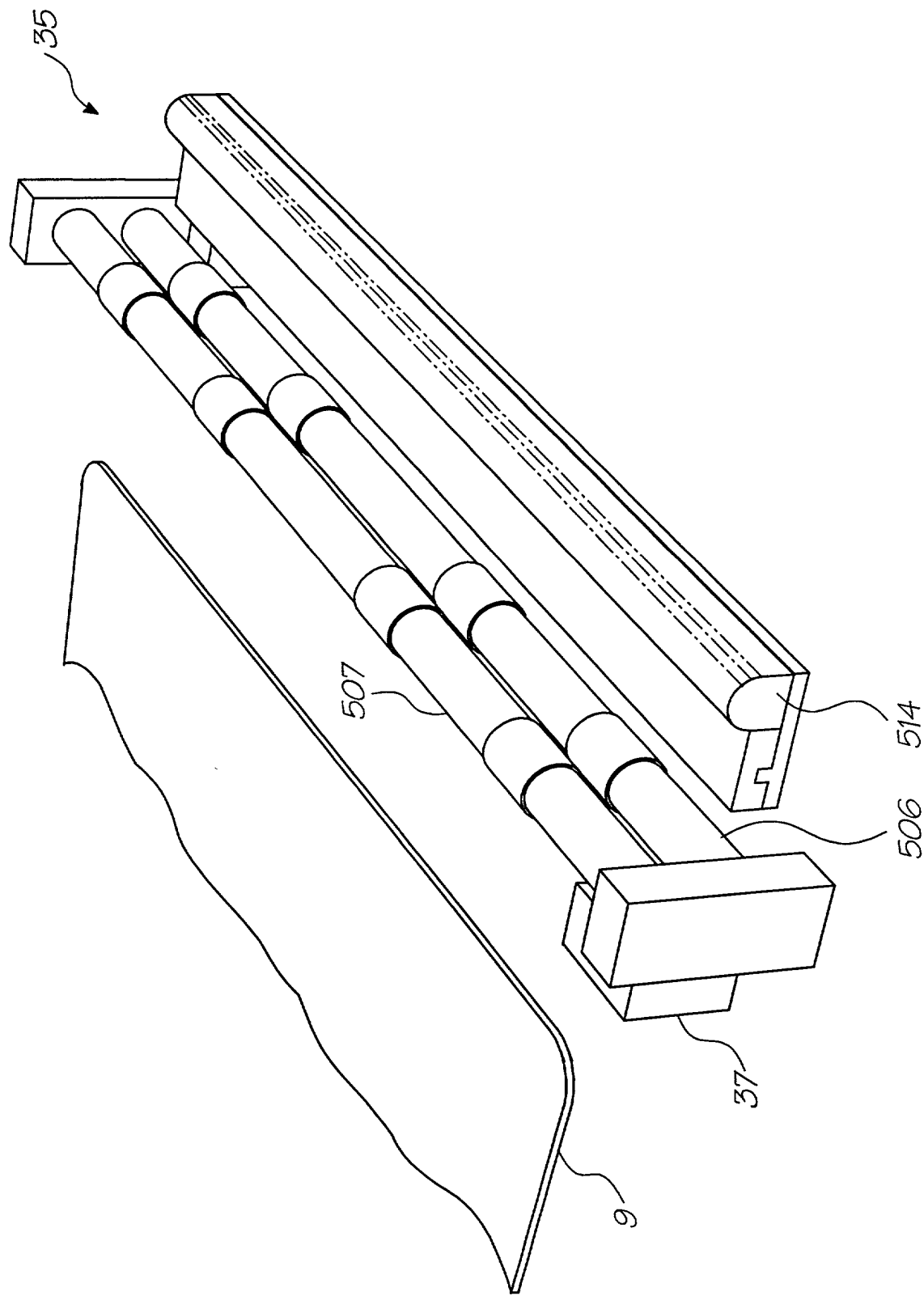


FIG. 159

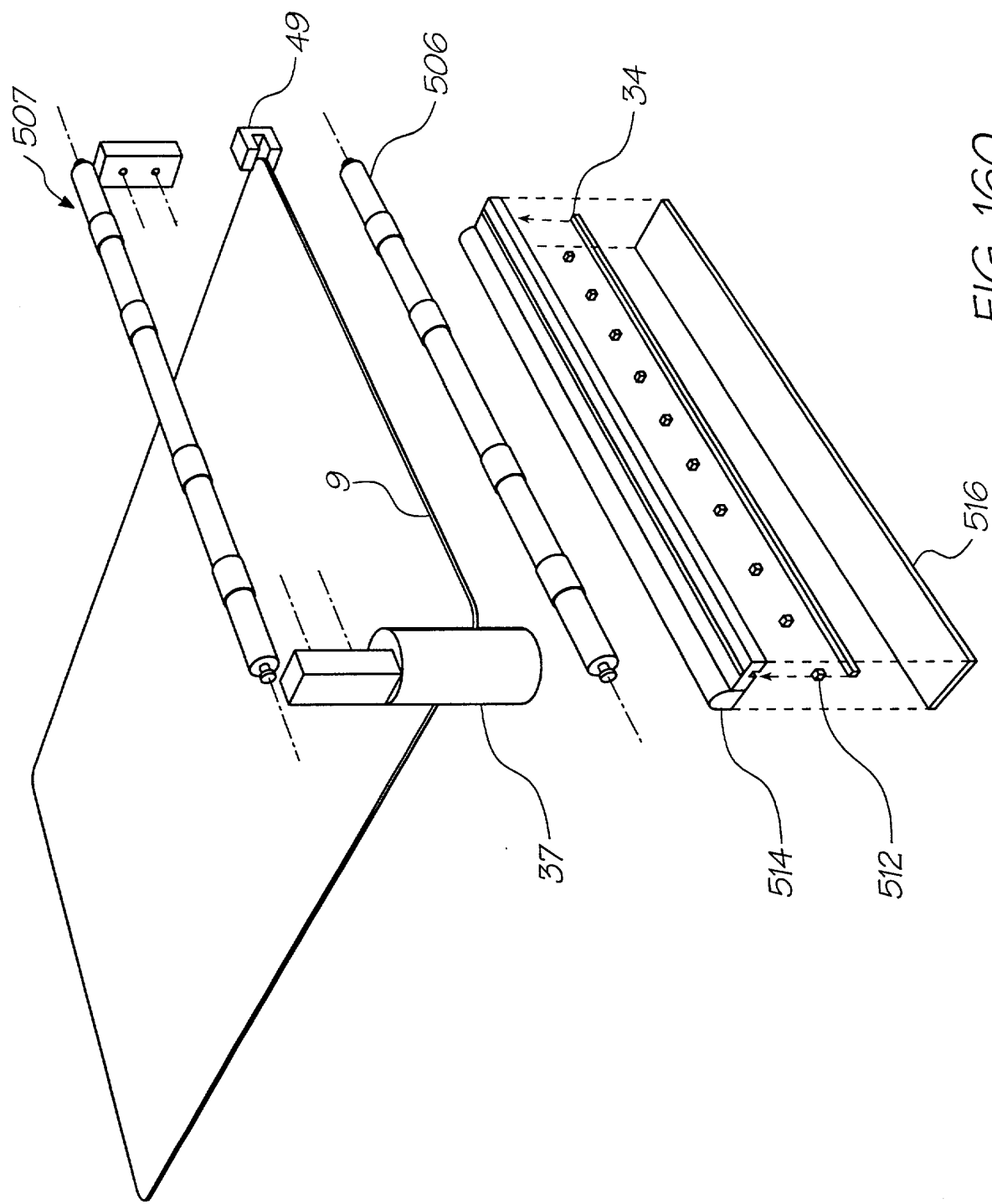
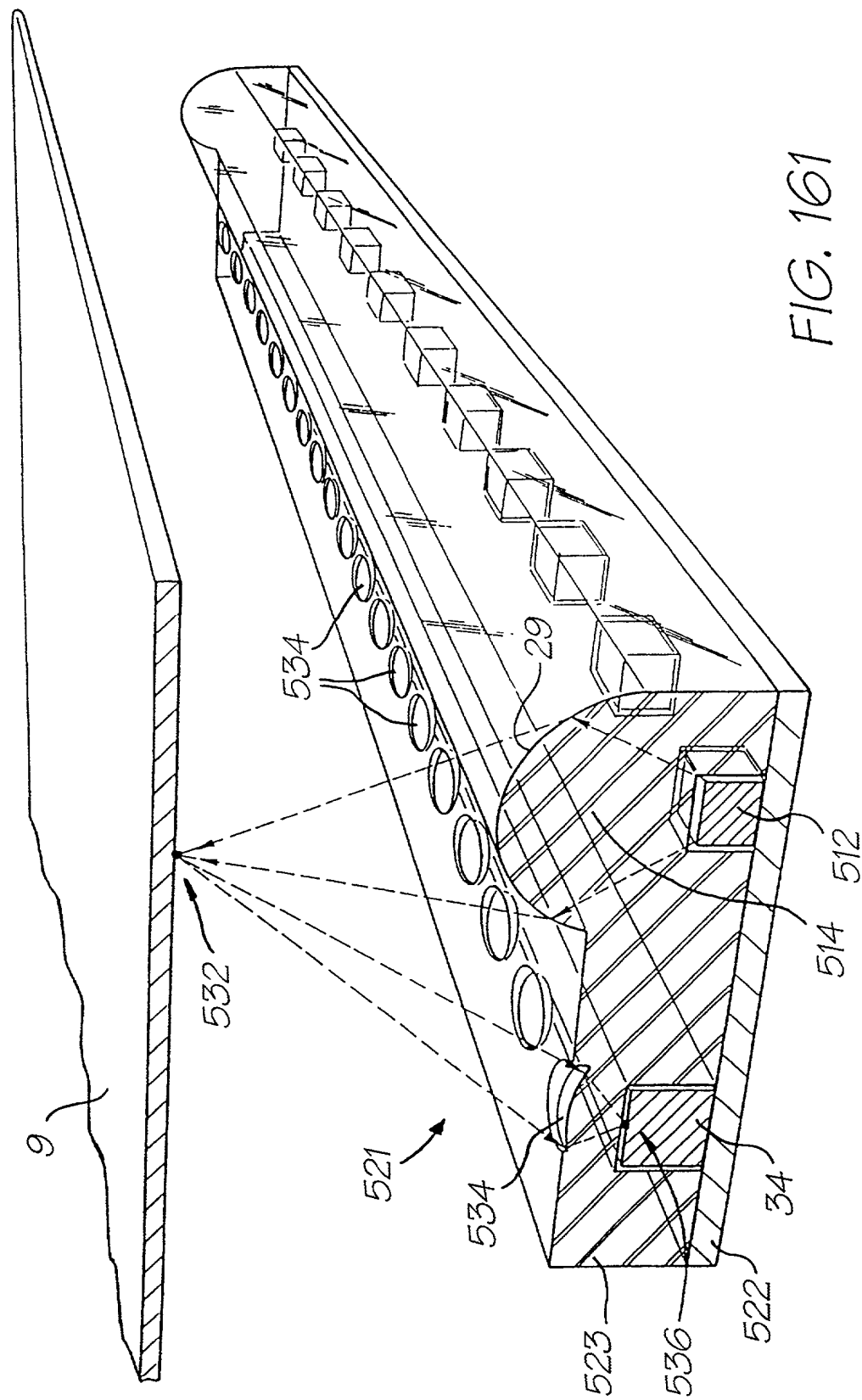


FIG. 160



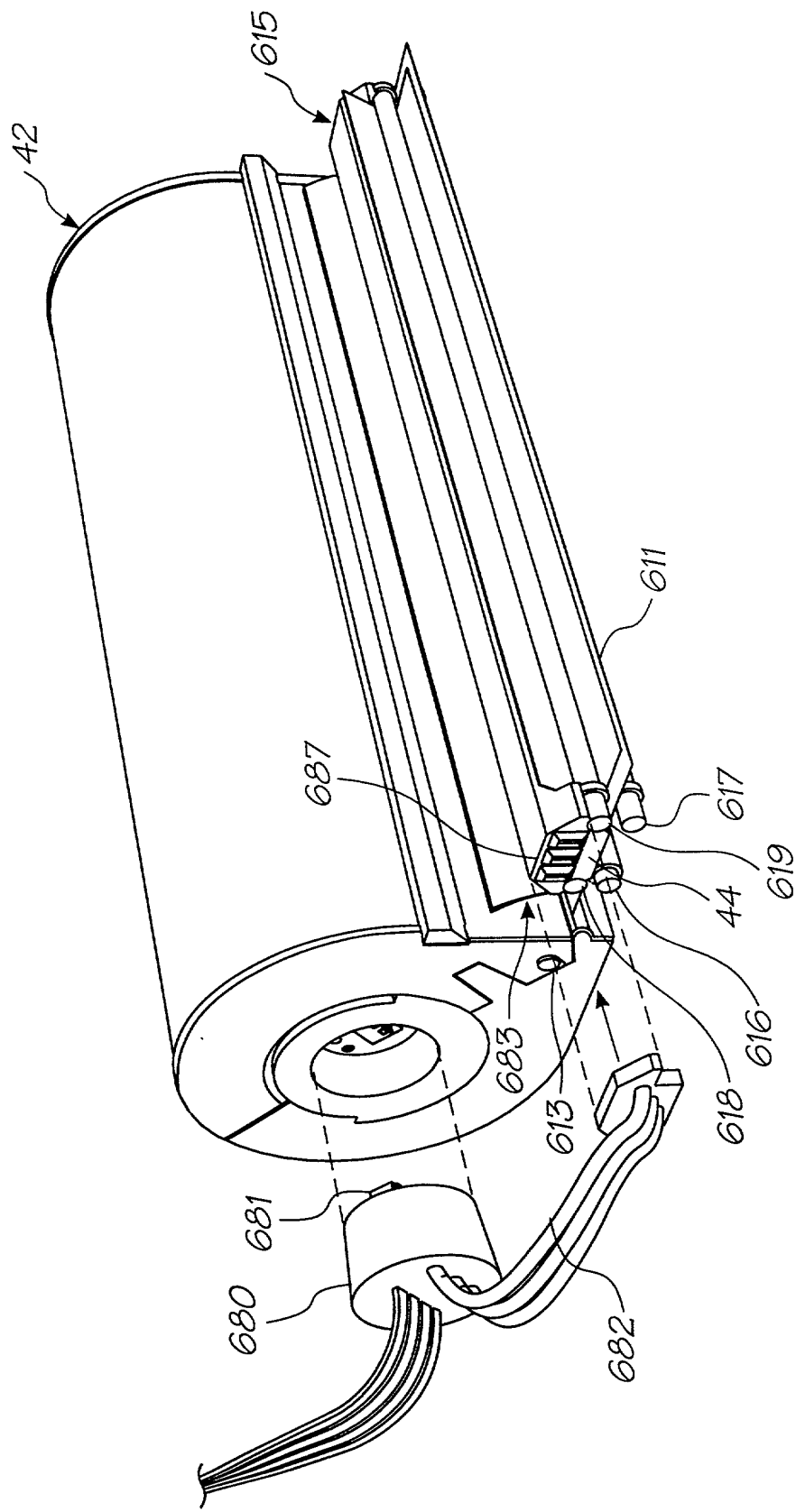


FIG. 162

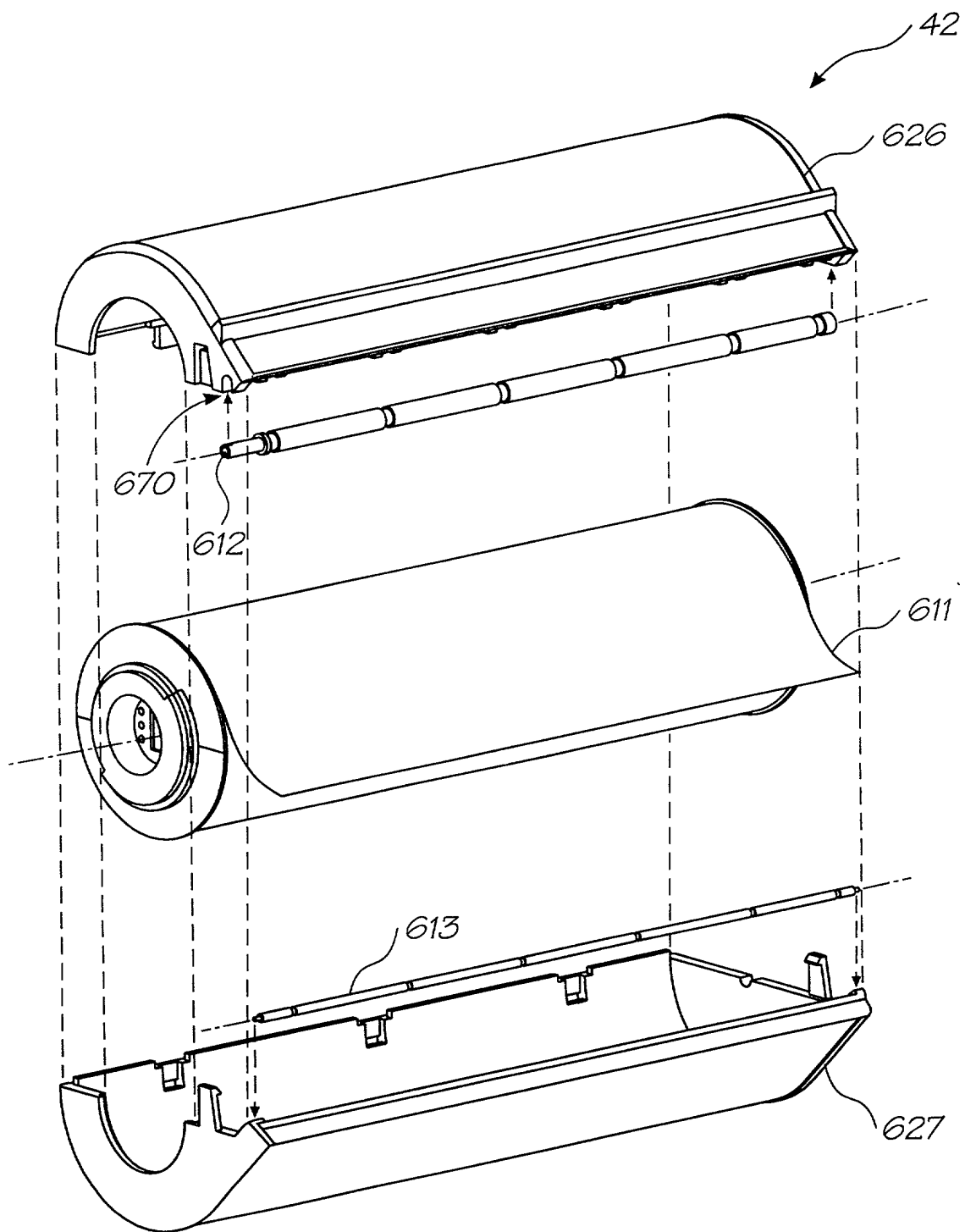


FIG. 163



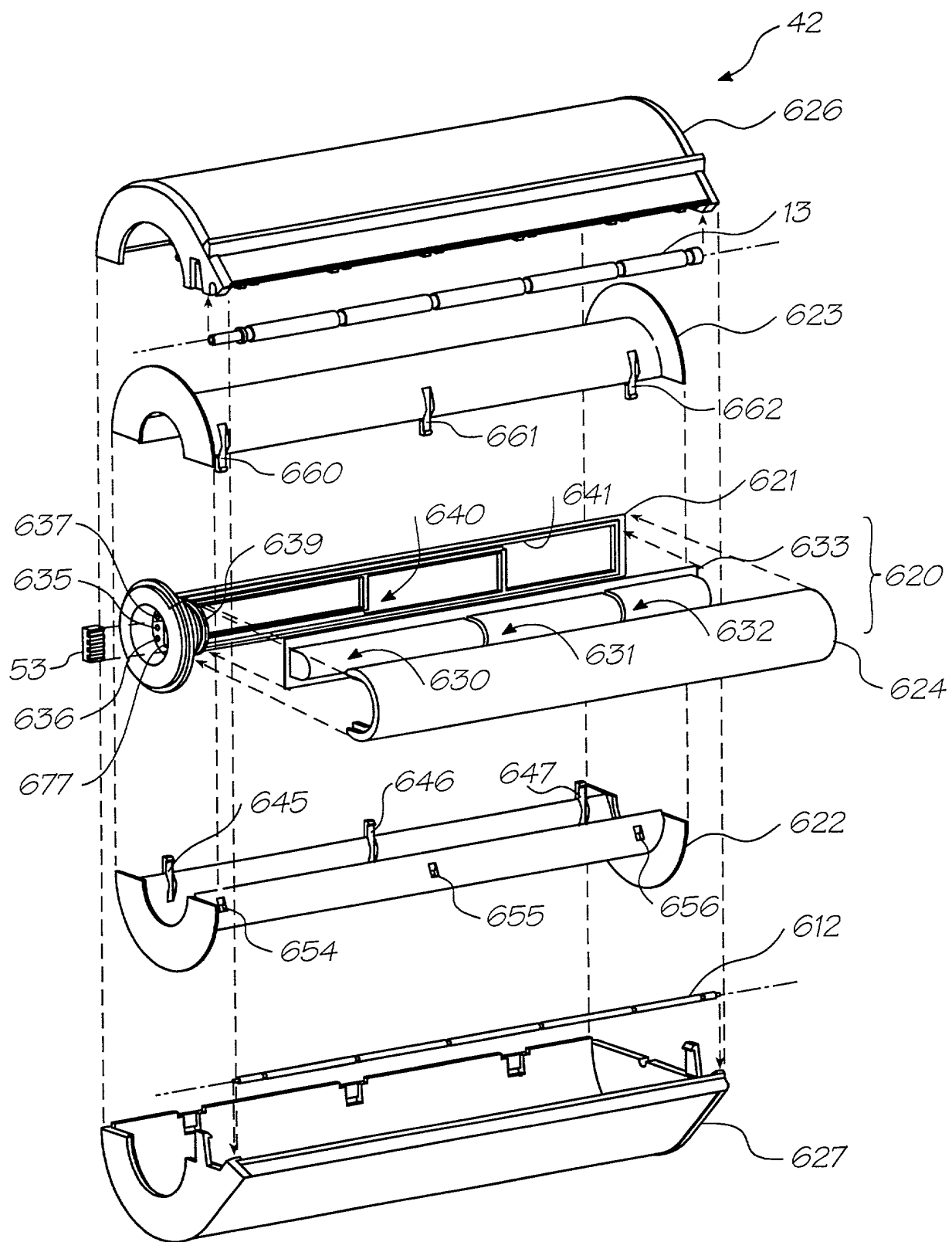


FIG. 164

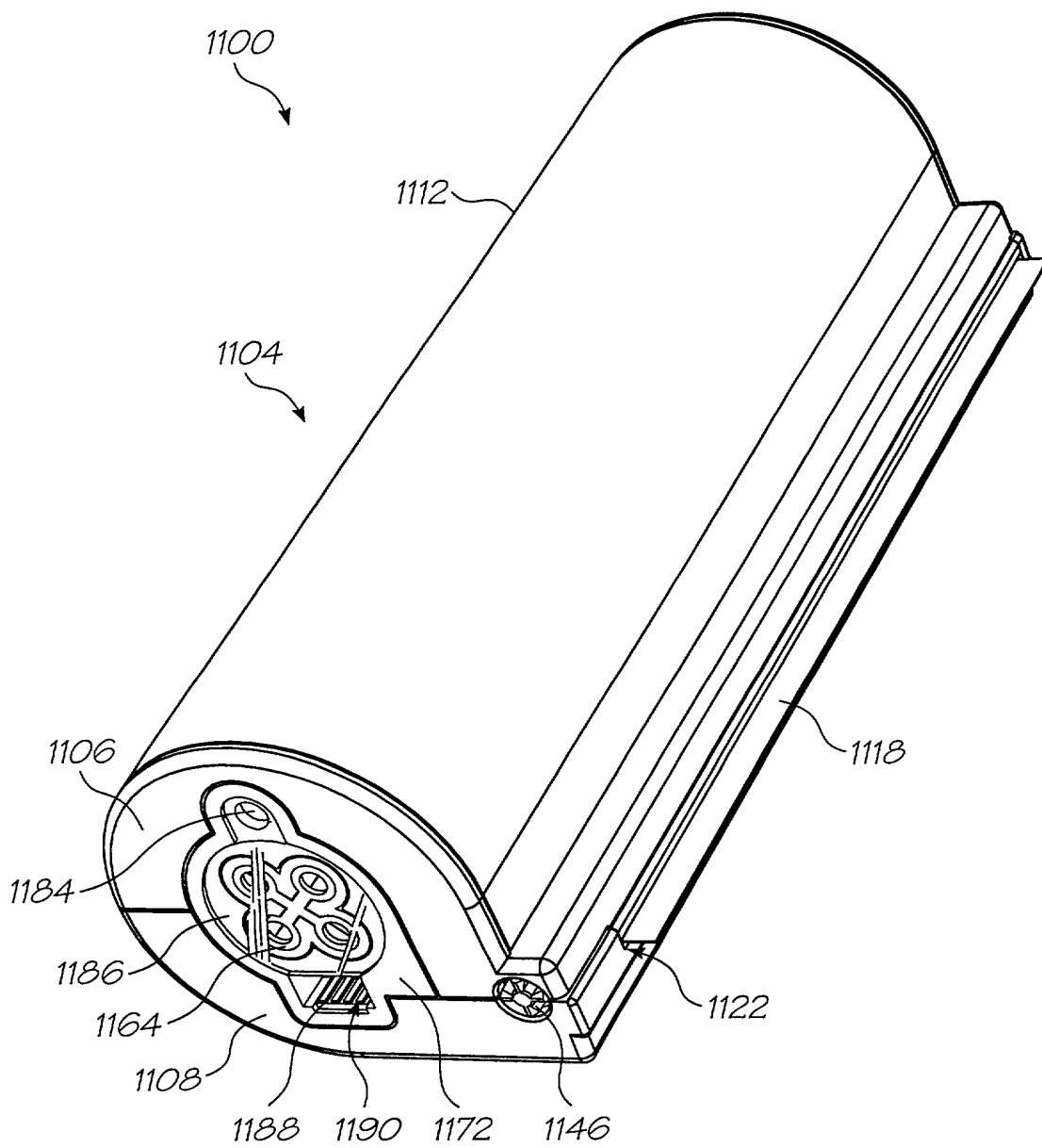


FIG. 164A

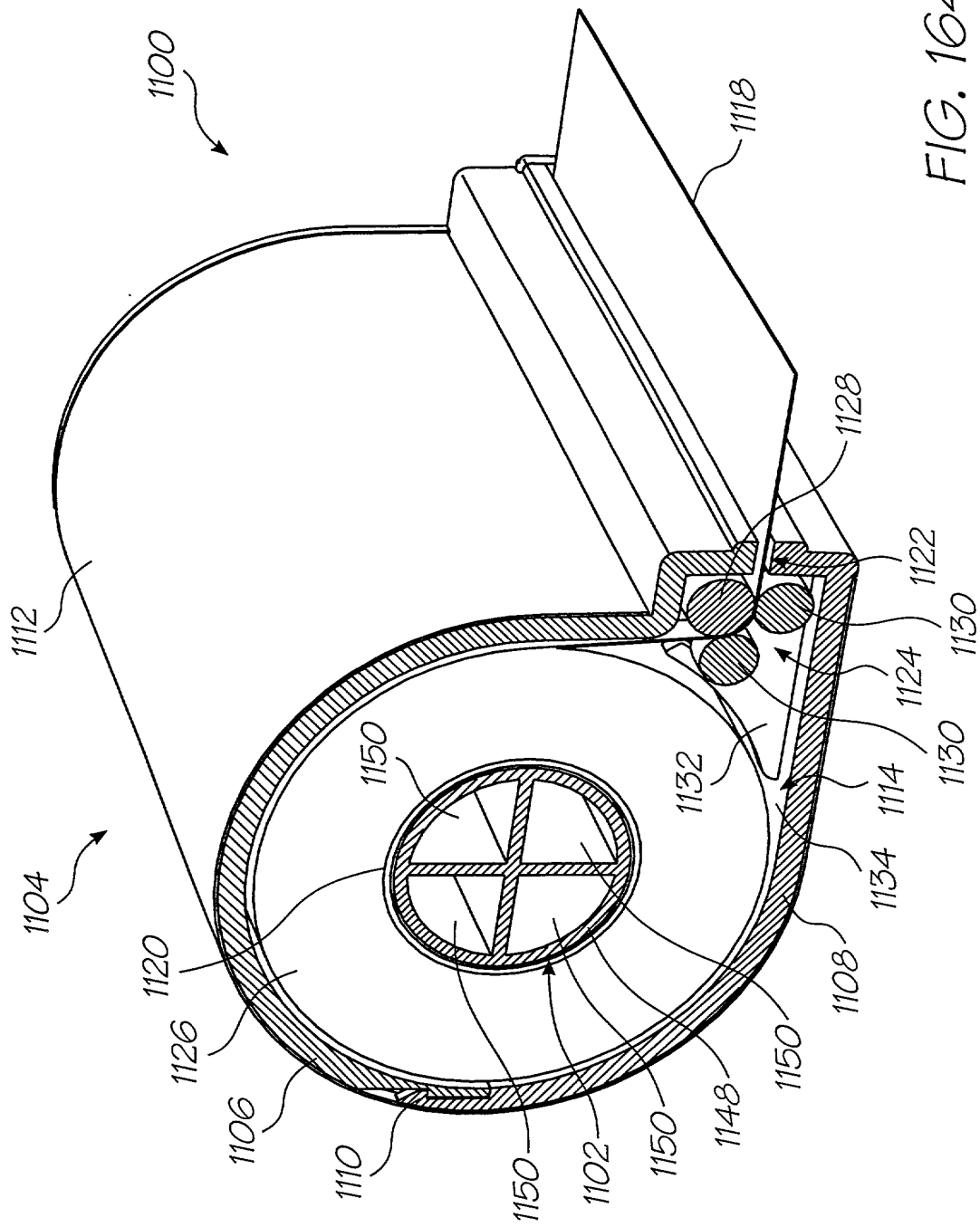


FIG. 164B

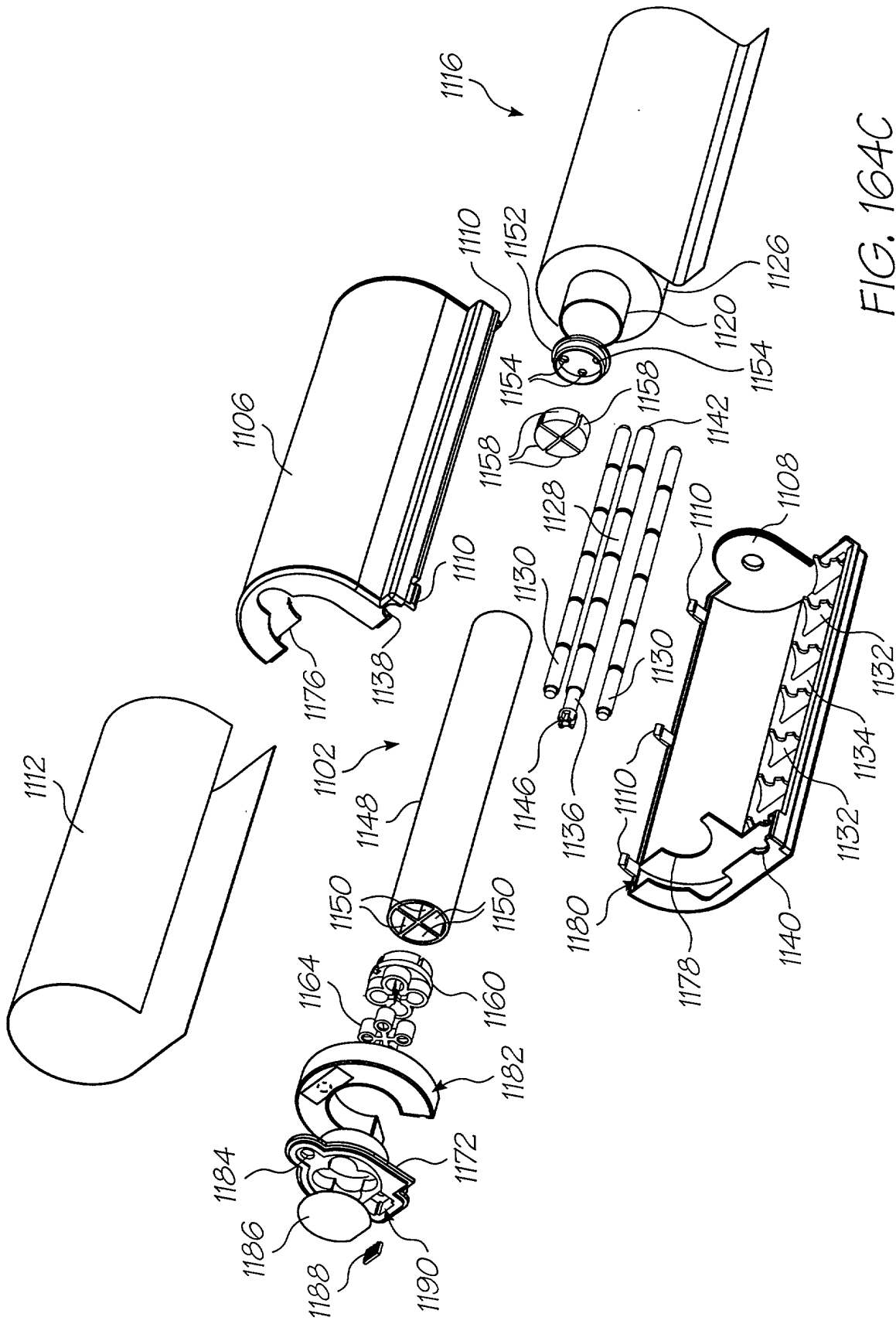


FIG. 164C

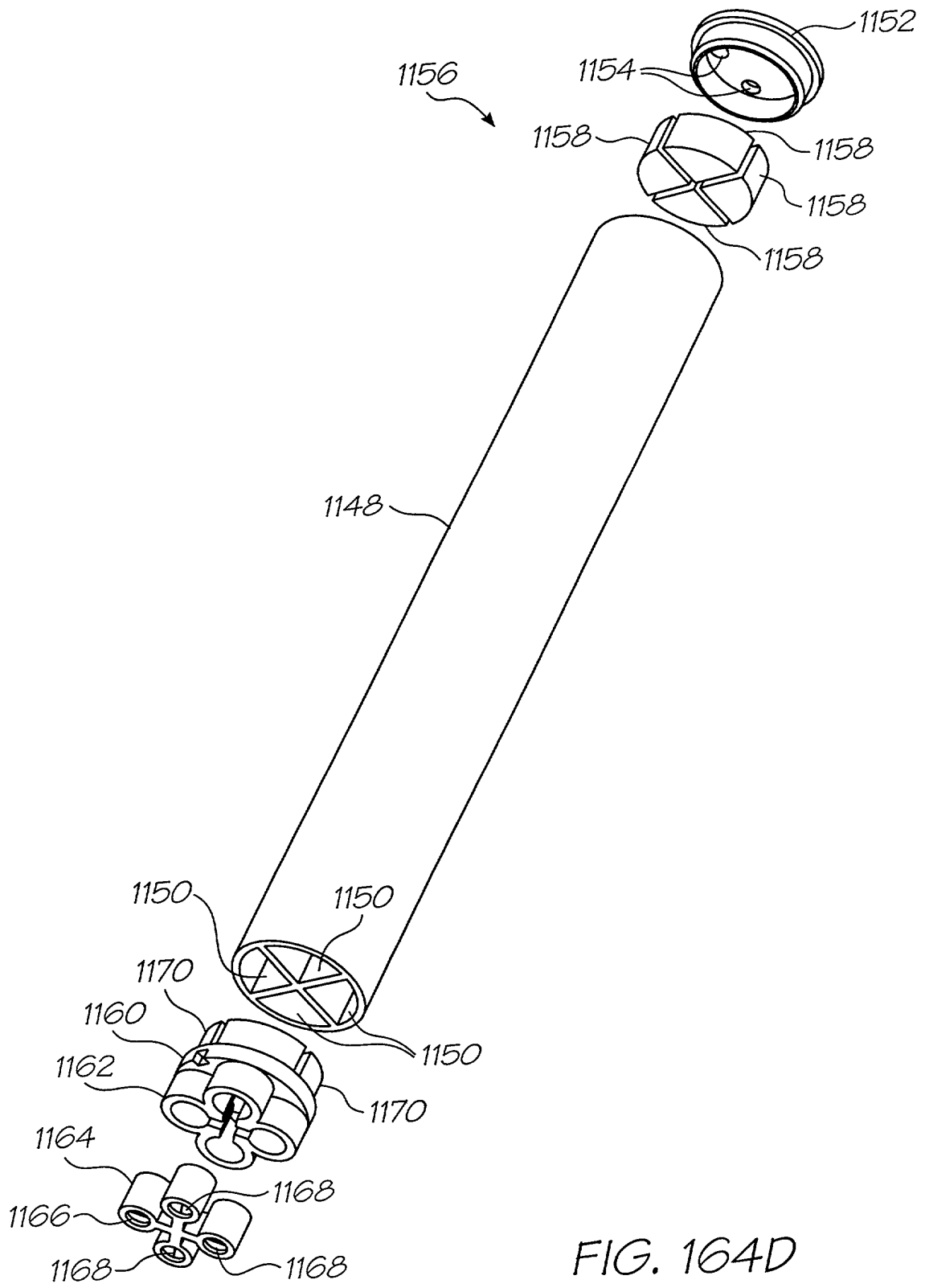


FIG. 164D

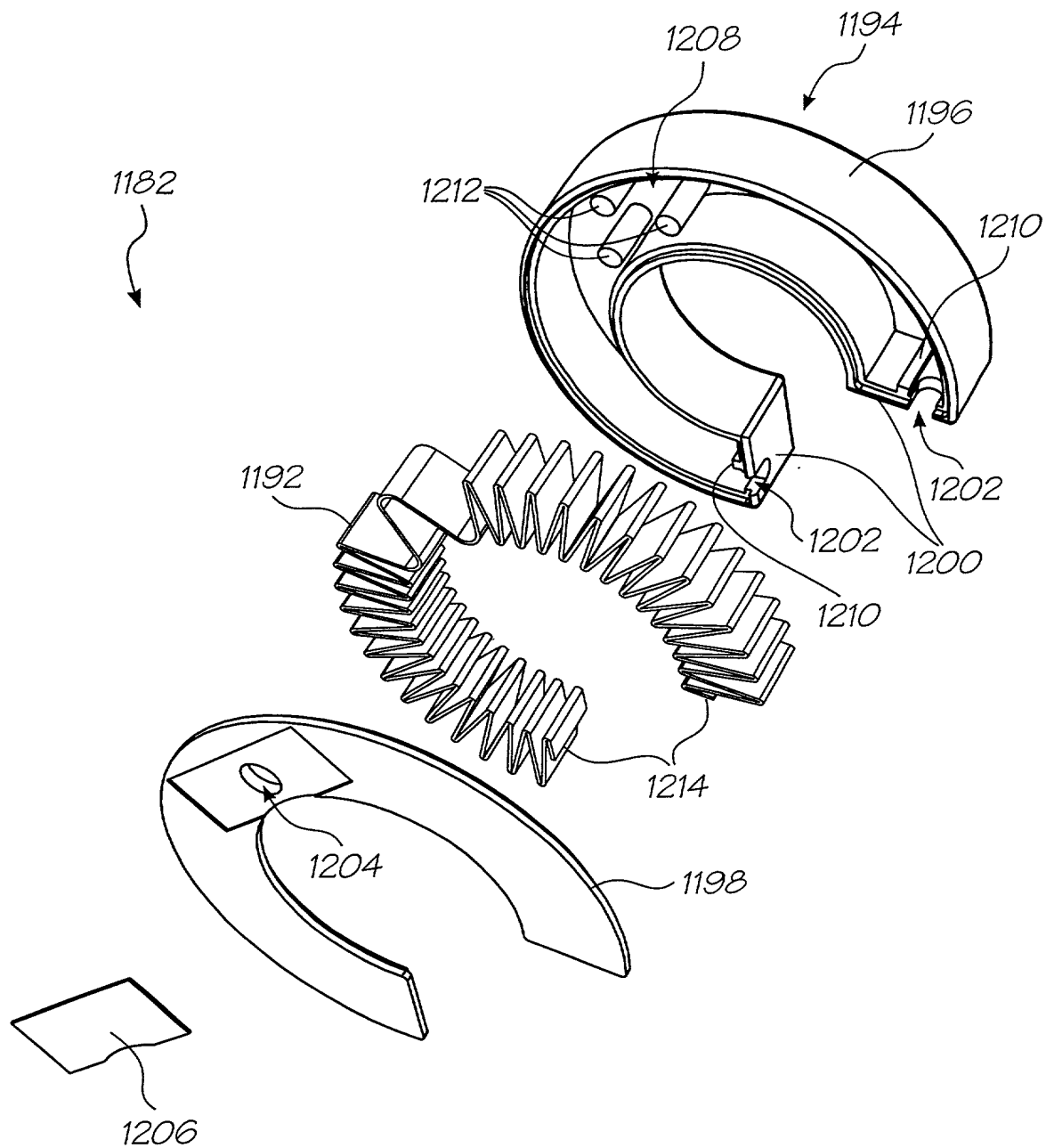


FIG. 164E

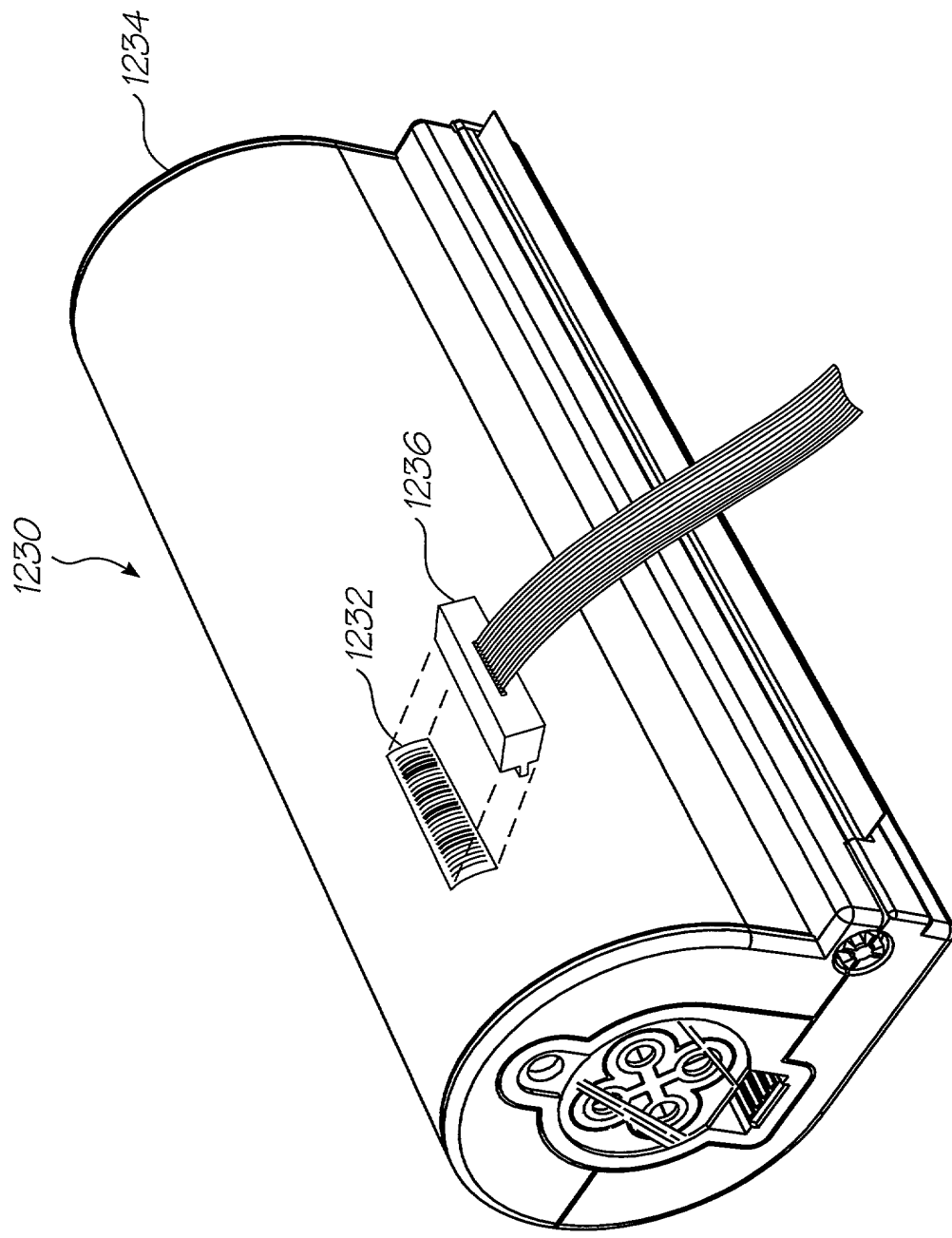


FIG. 164F

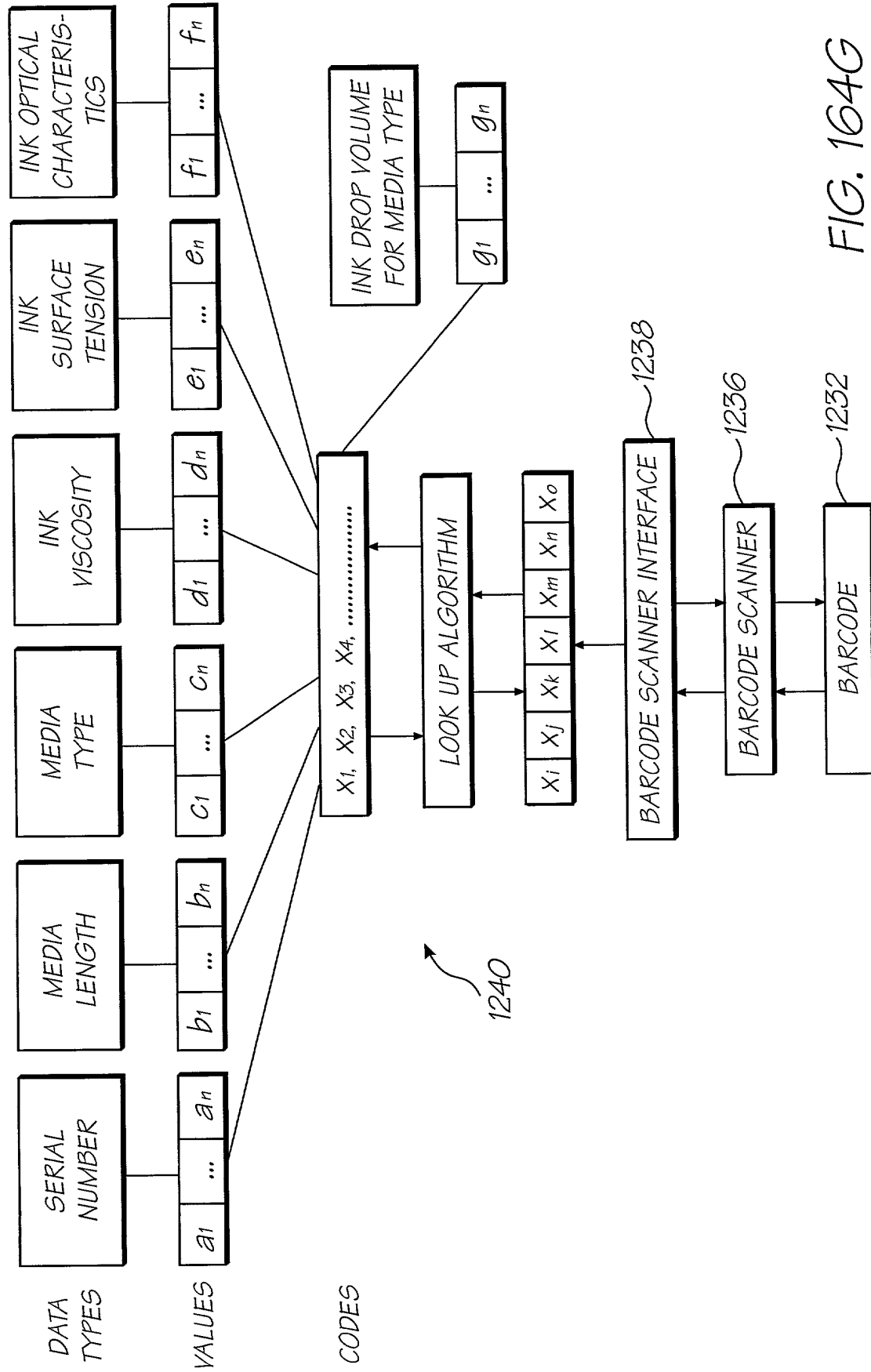


FIG. 164G



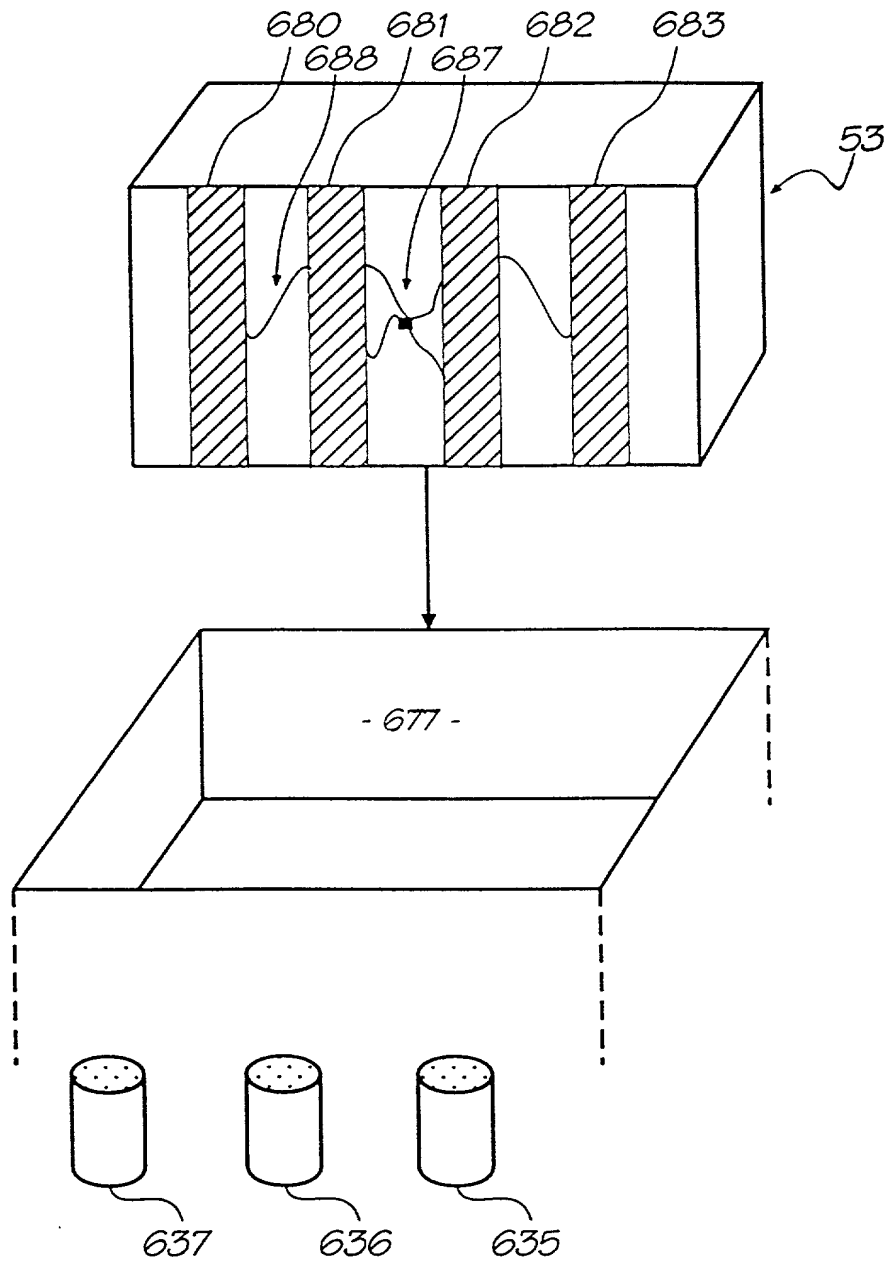


FIG. 165

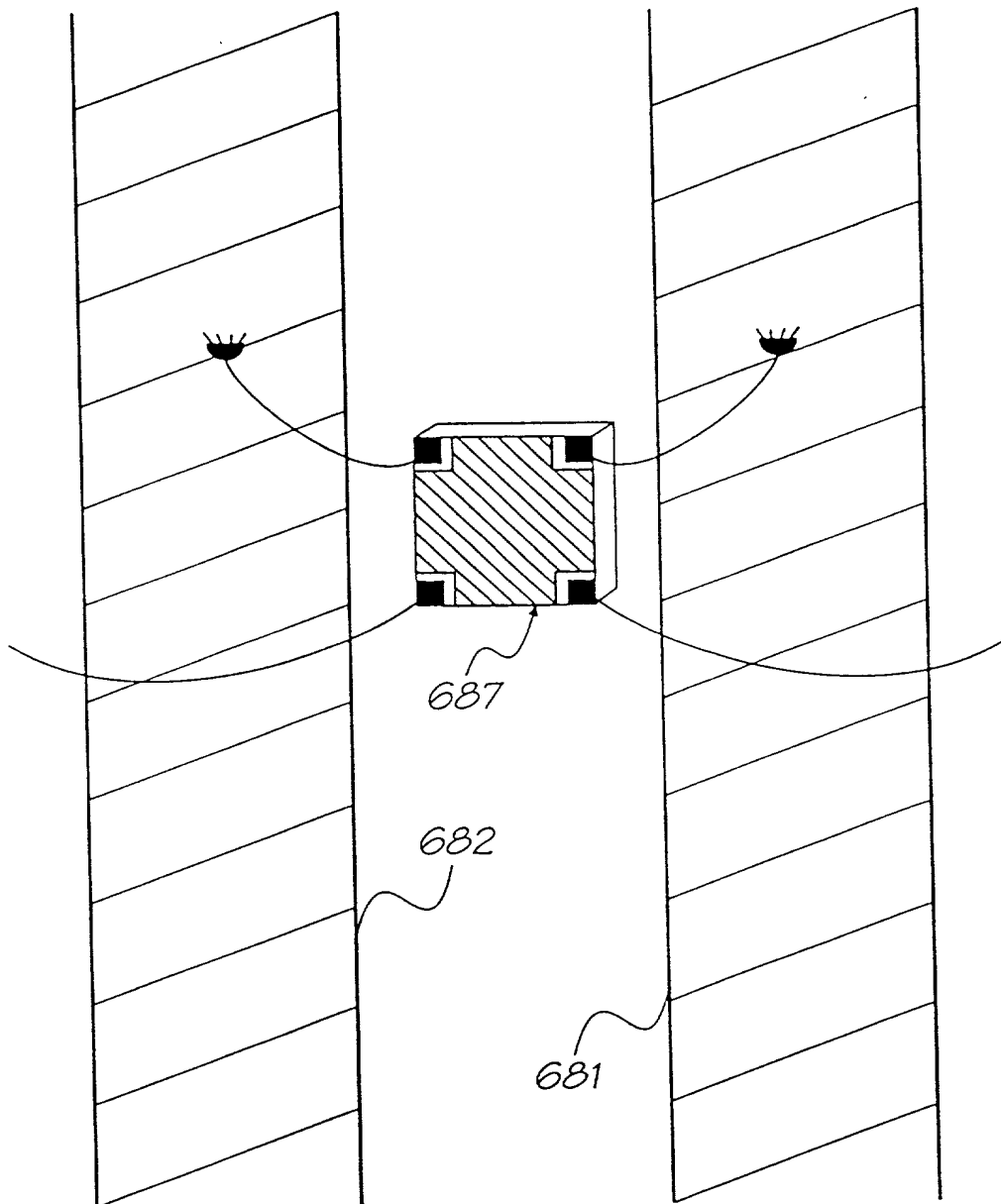


FIG. 166

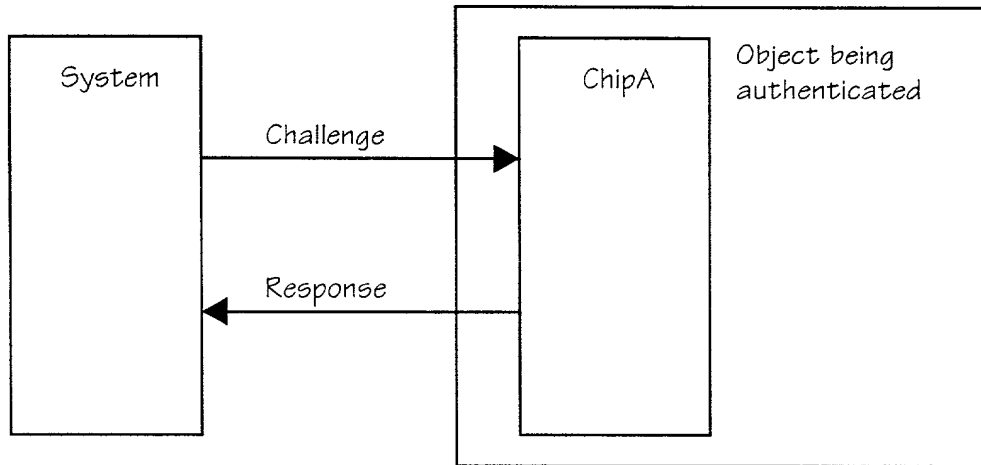


FIG. 167

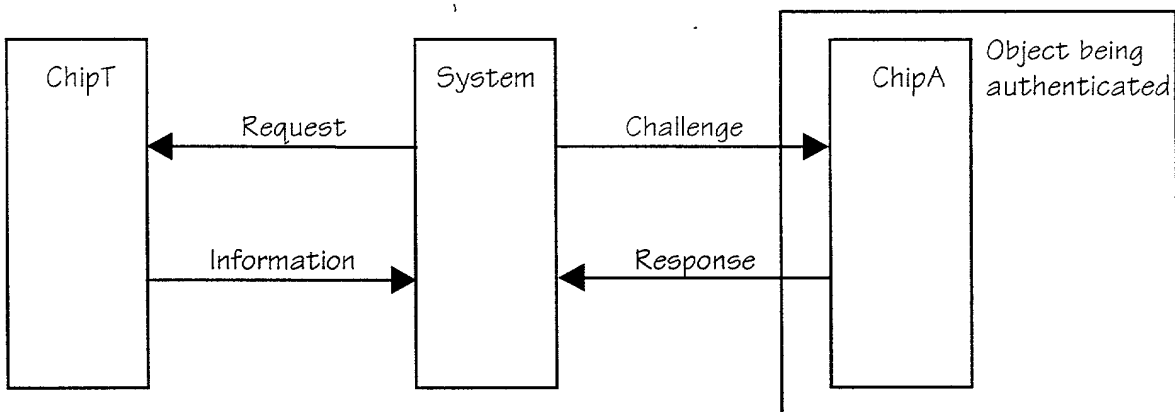


FIG. 168

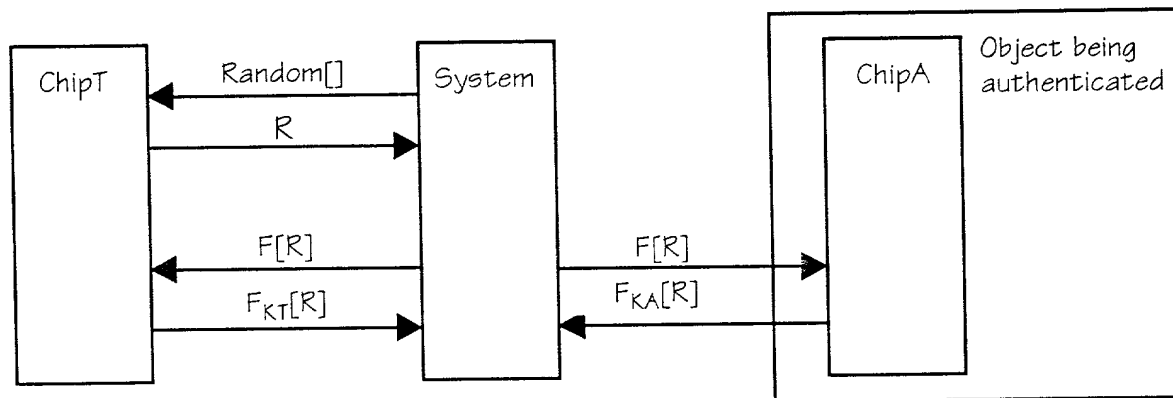


FIG. 169

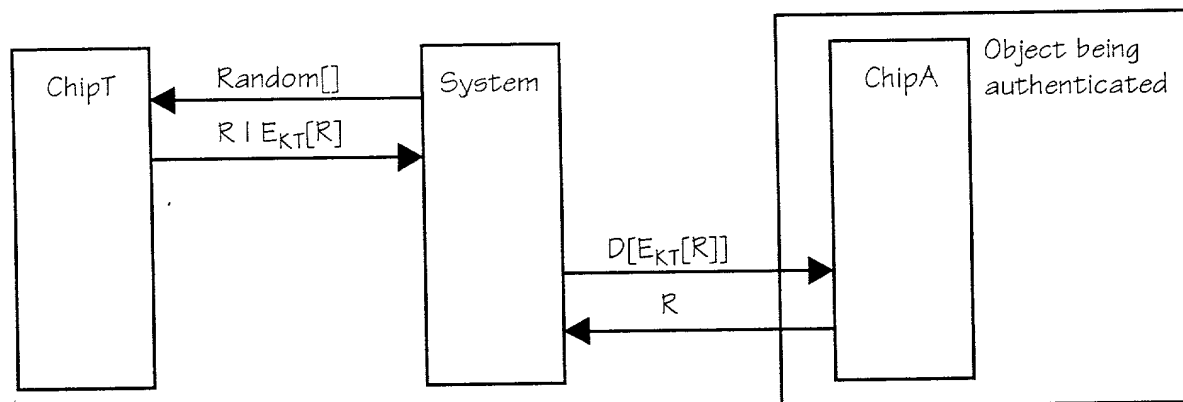


FIG. 170

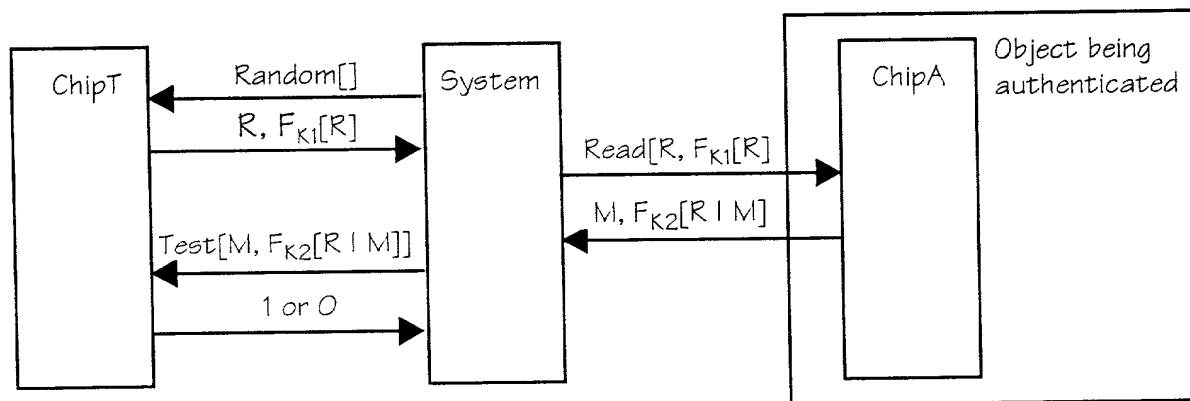


FIG. 171

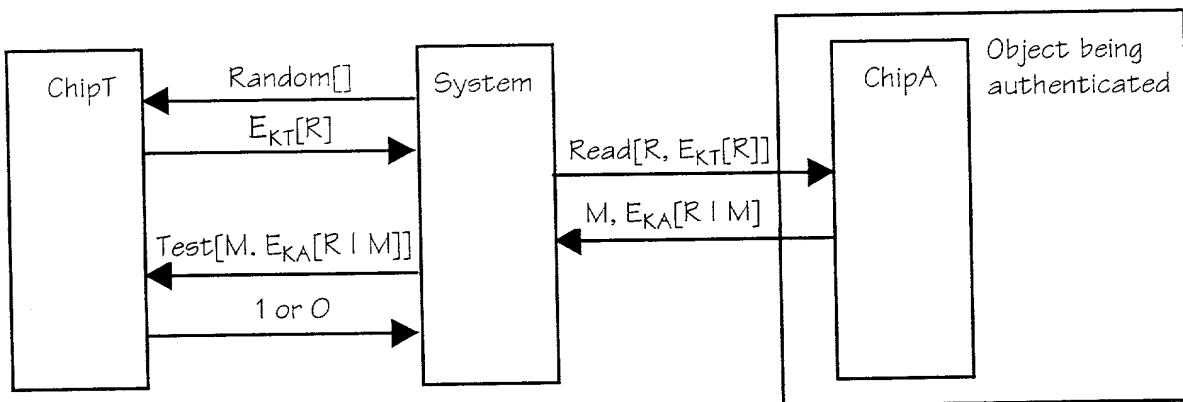


FIG. 172

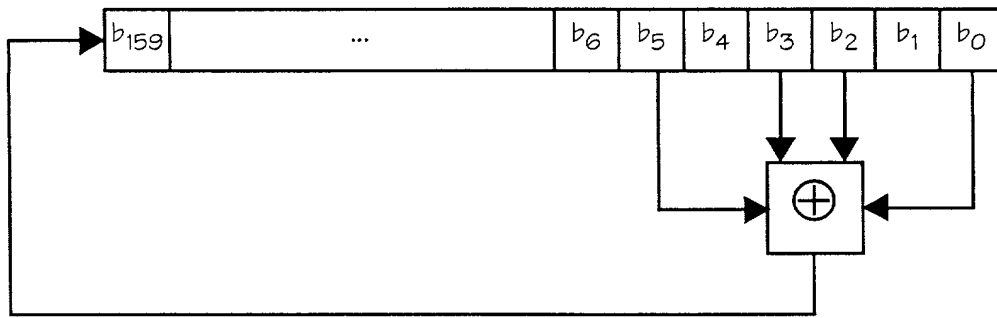


FIG. 173

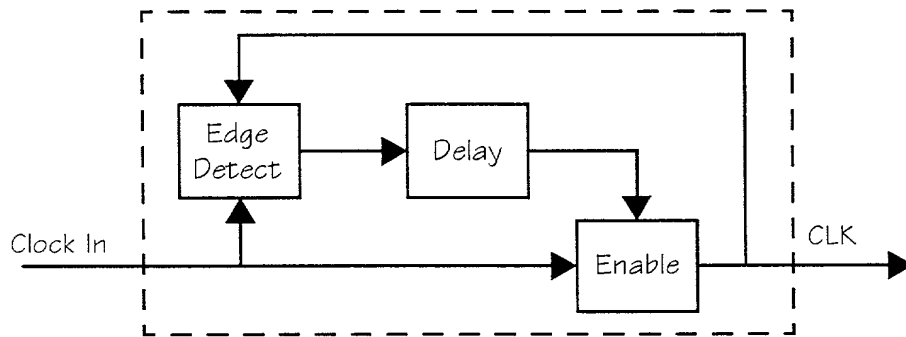


FIG. 174

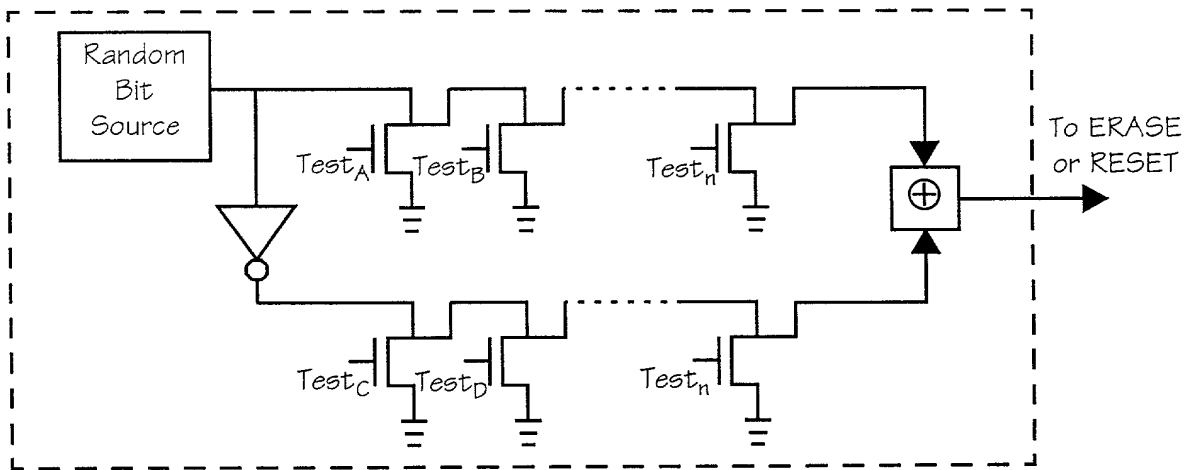


FIG. 175

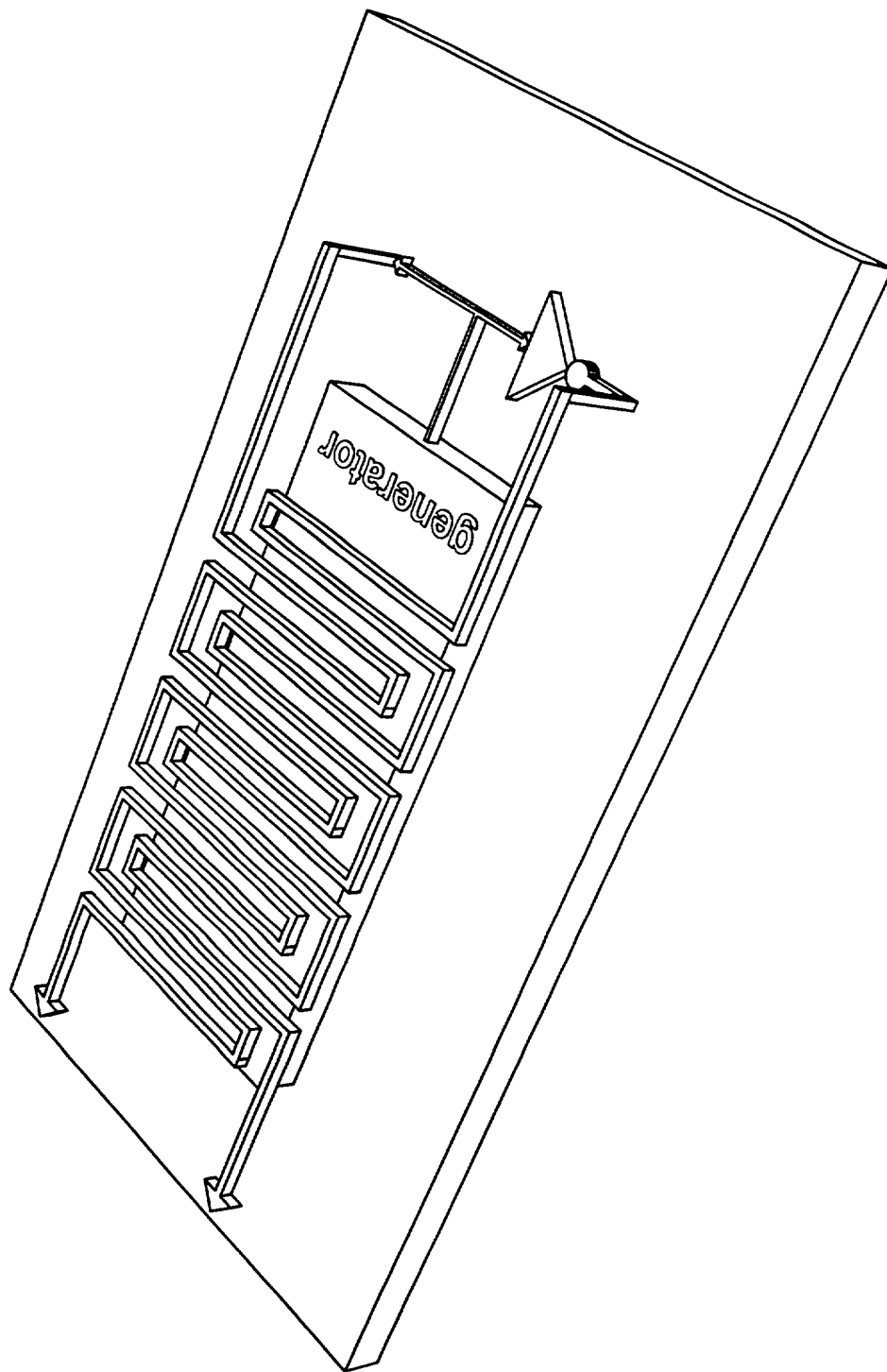


FIG. 178

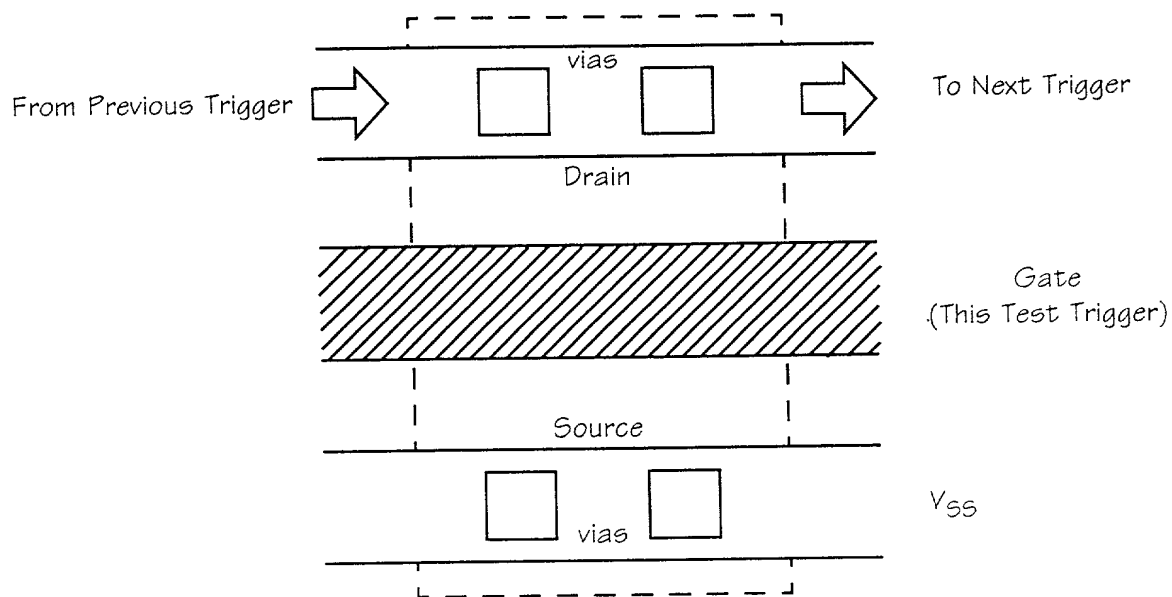


FIG. 176

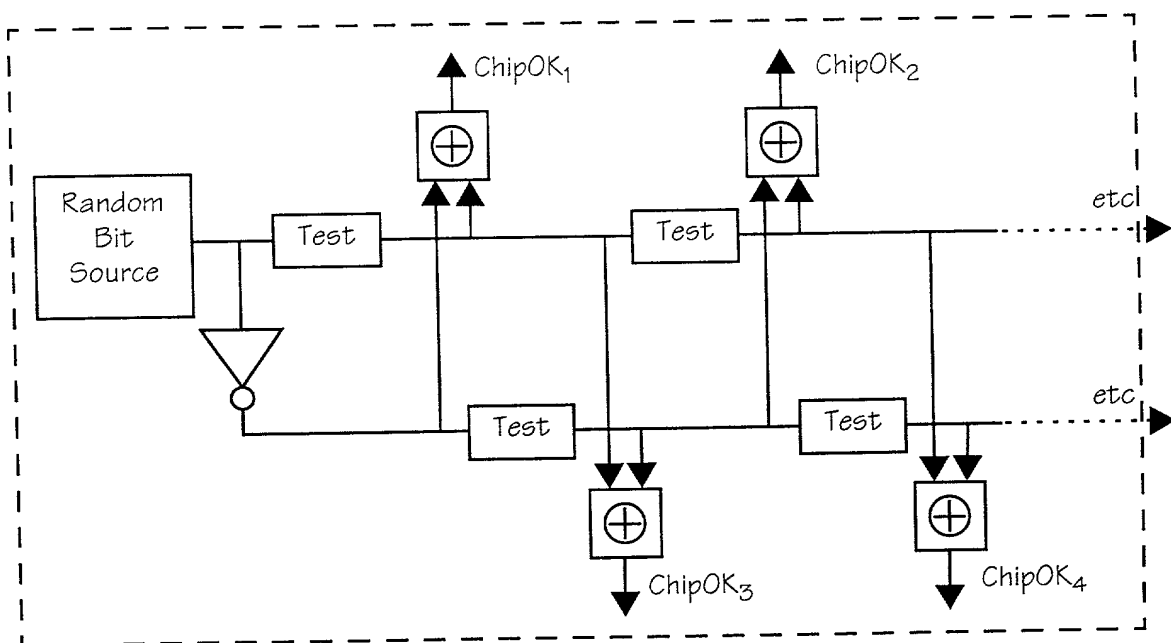


FIG. 177



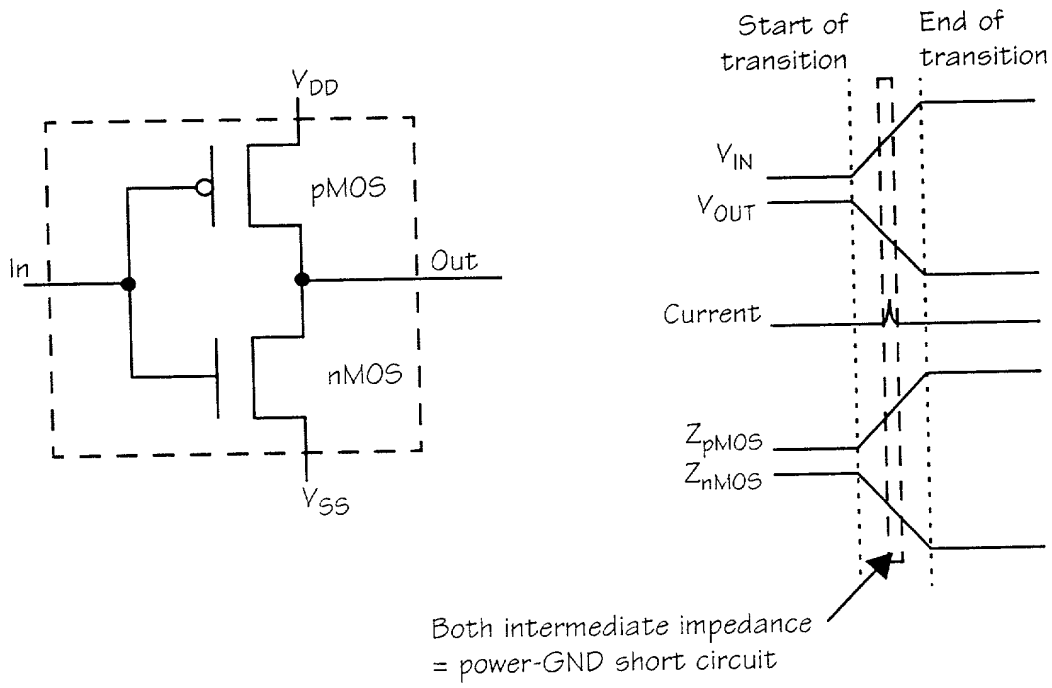


FIG. 179

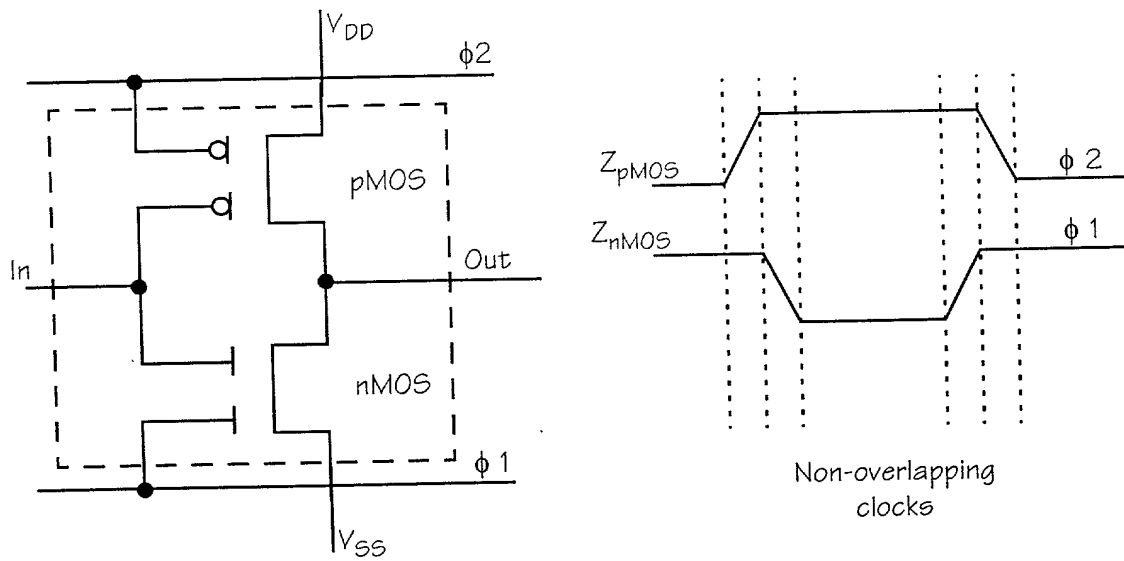


FIG. 180

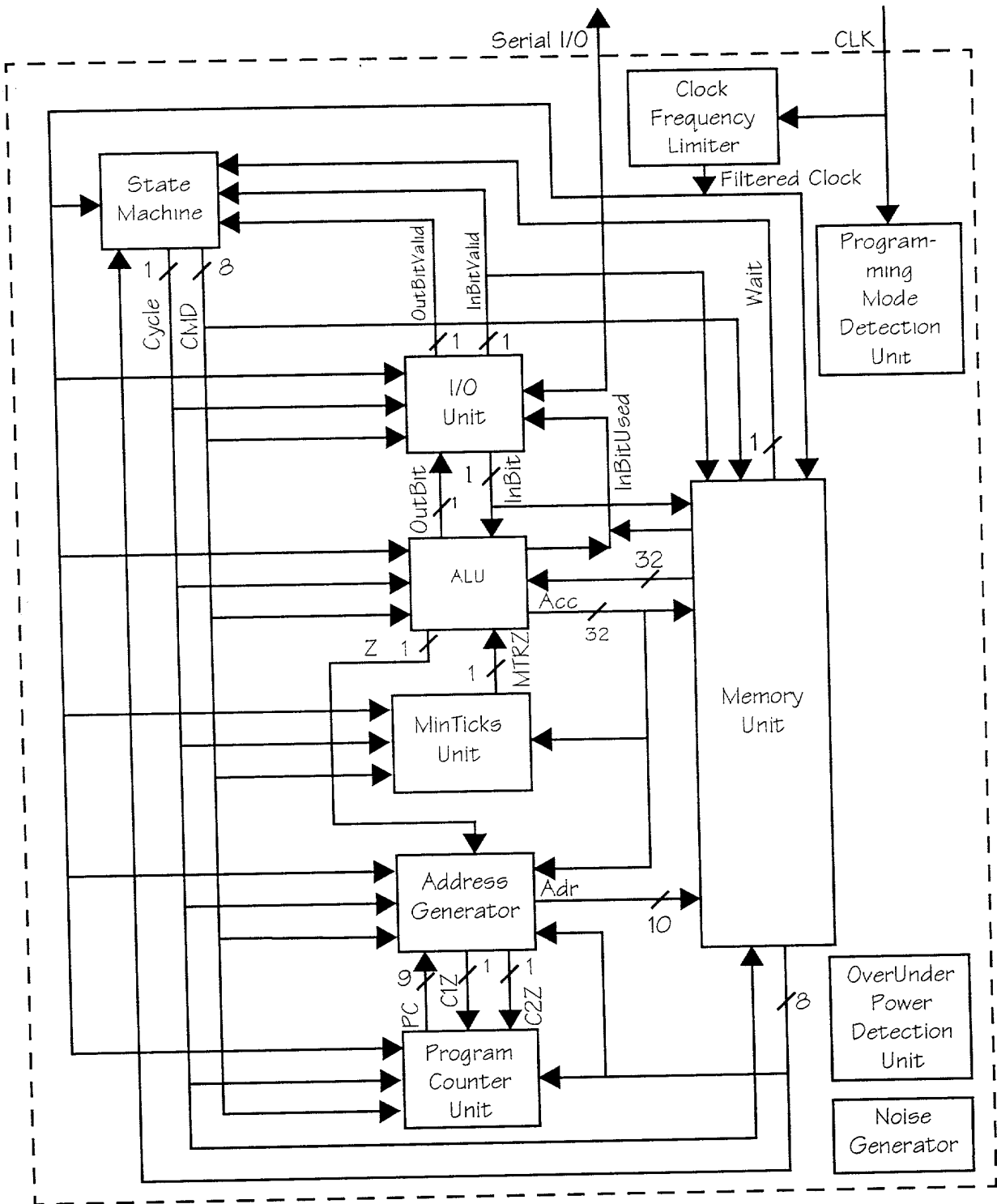


FIG. 181

FIG. 182

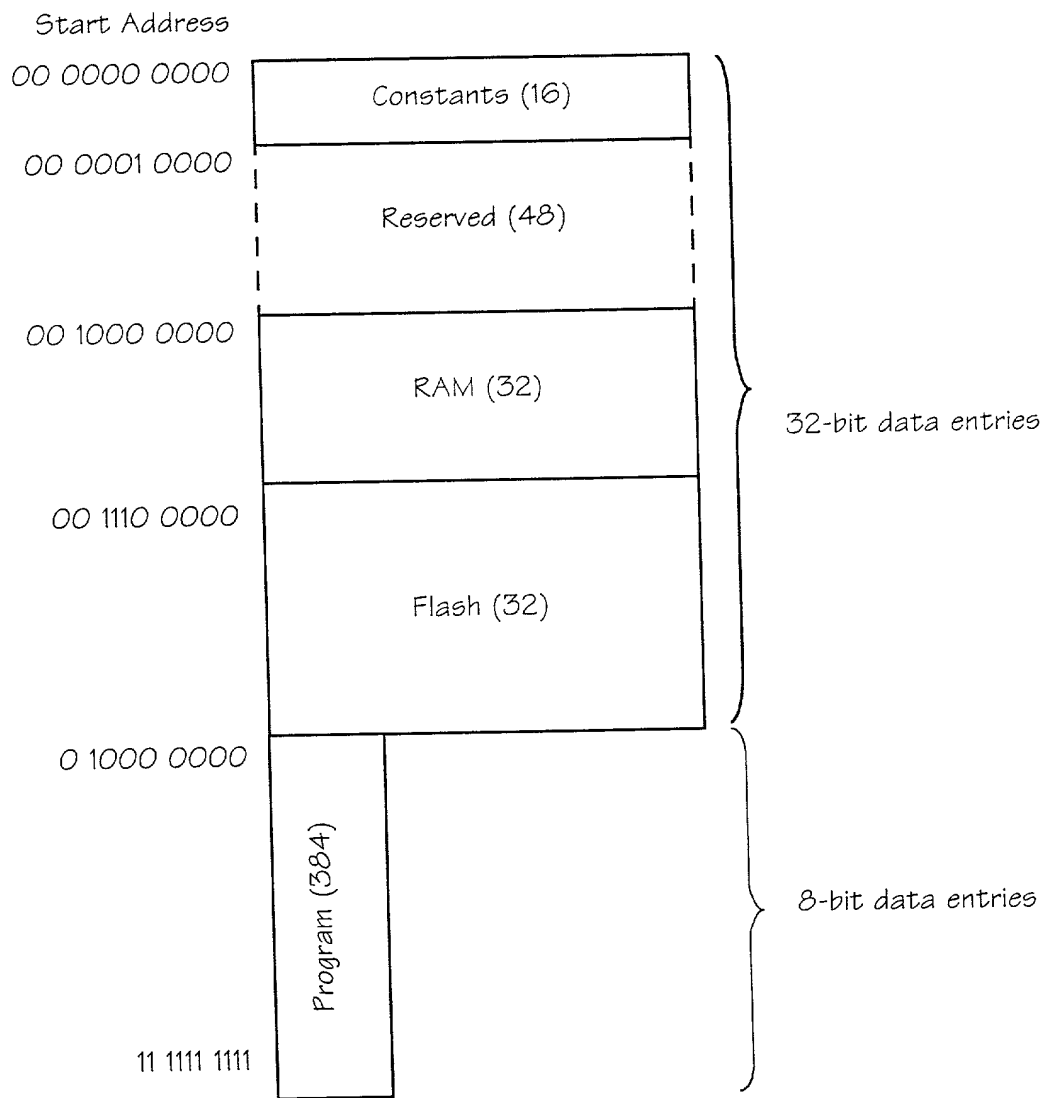


FIG. 182

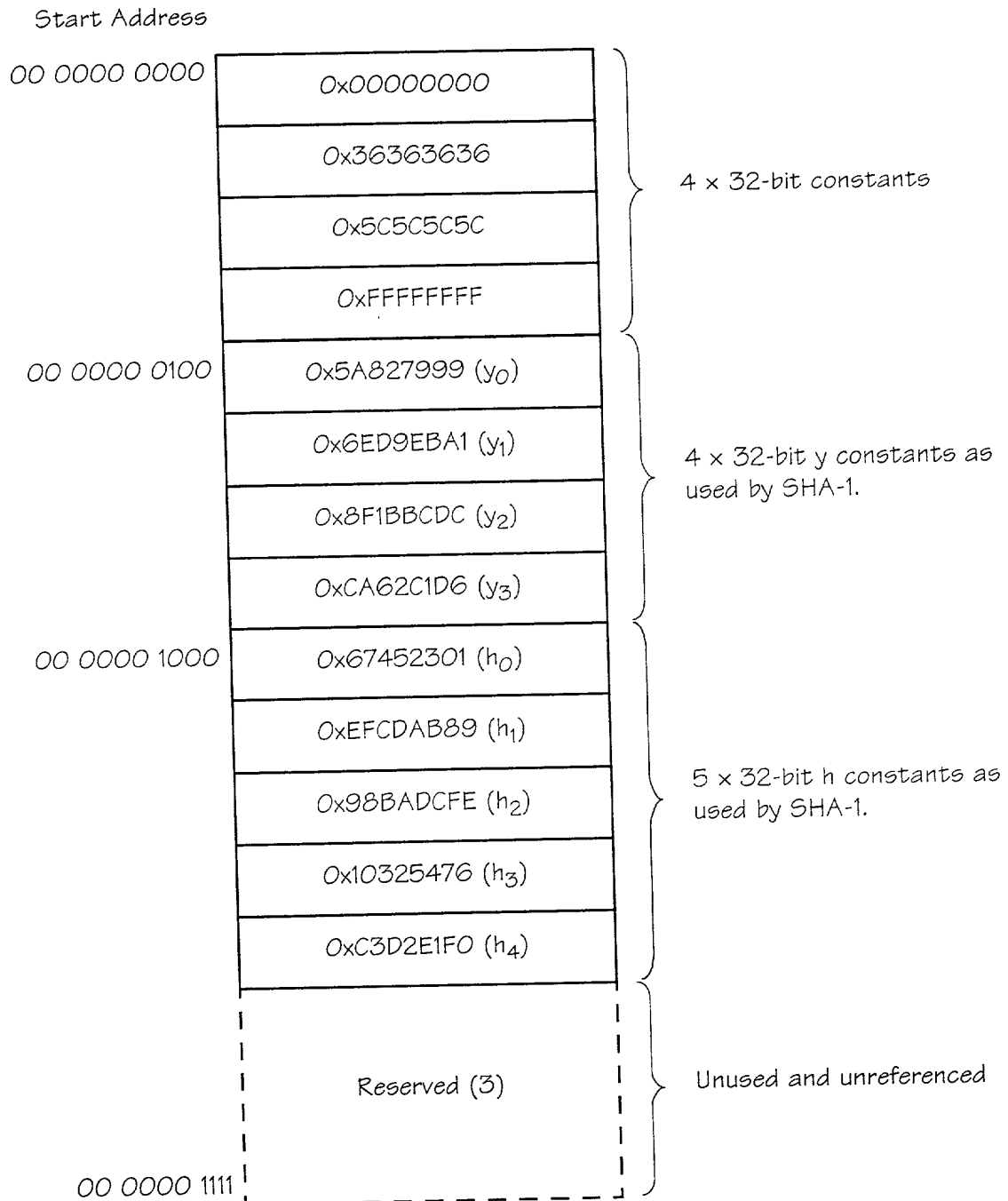


FIG. 183.

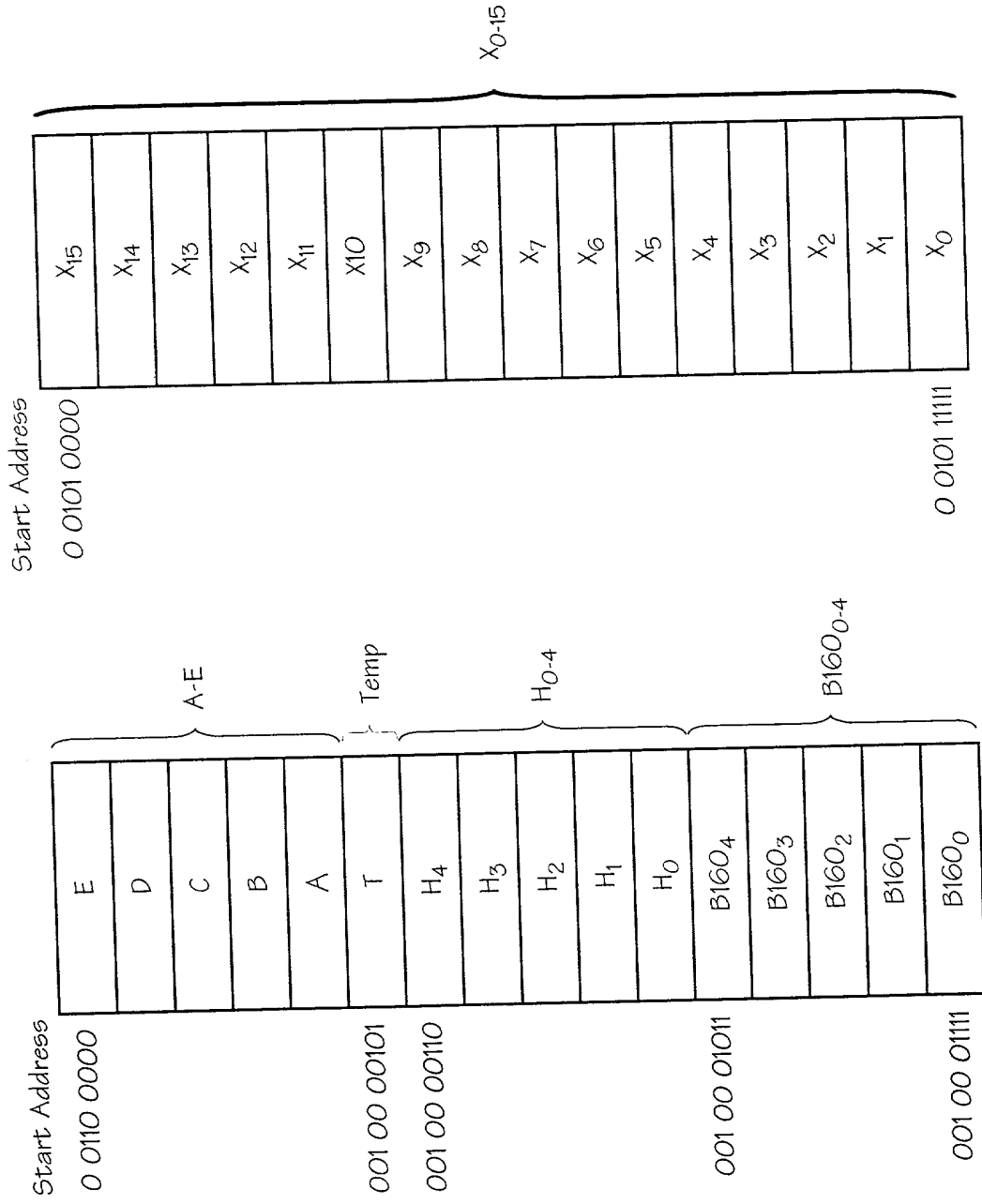


FIG. 184

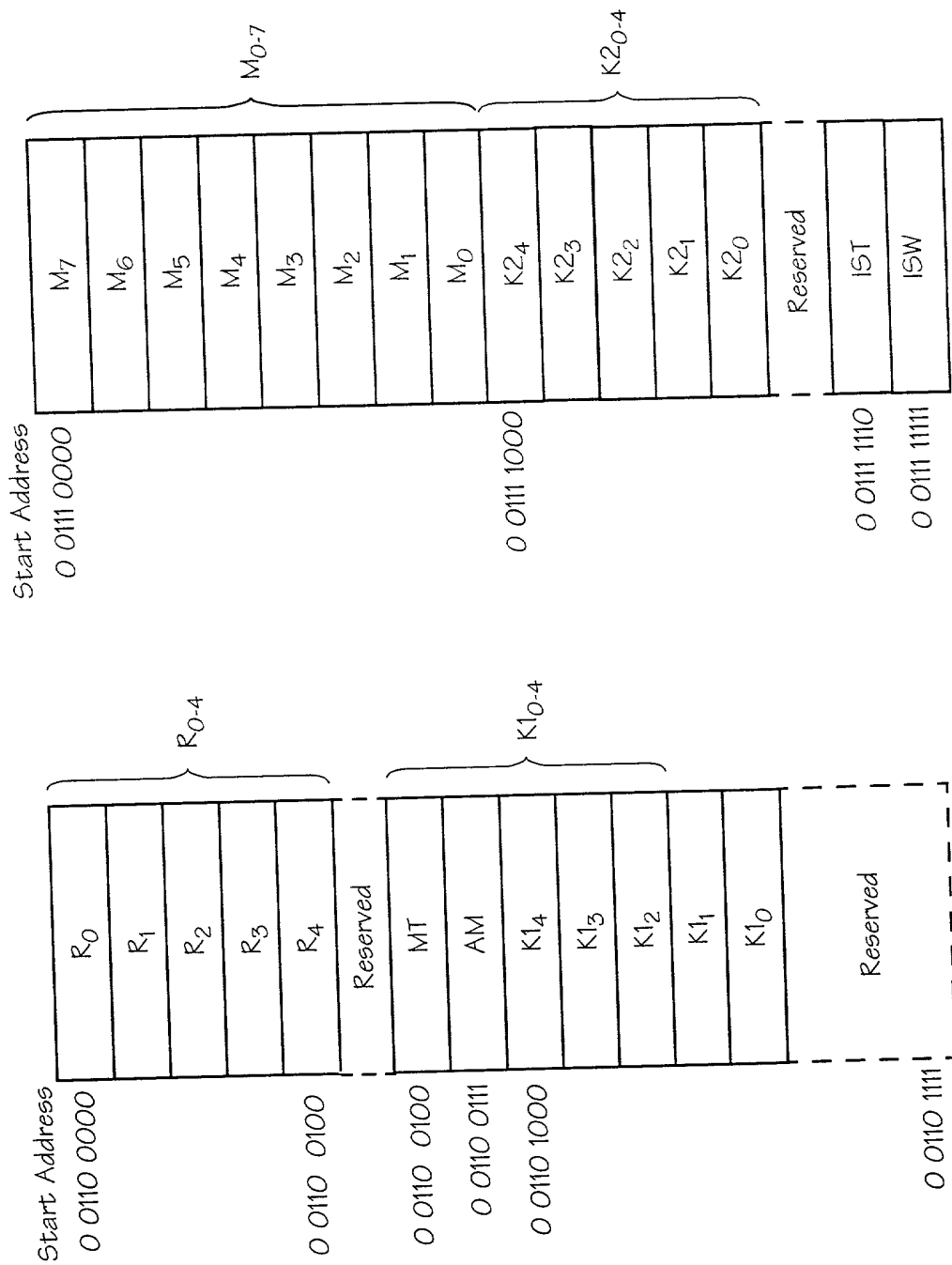


FIG. 185

Start Address

0 1000 0000

Adr Table 1 (32)

0 1010 0000

Adr Table 2 (32)

0 1100 0000

DBR Table (8)

0 1100 1000

Program (312)

11 1111 1111

FIG. 186

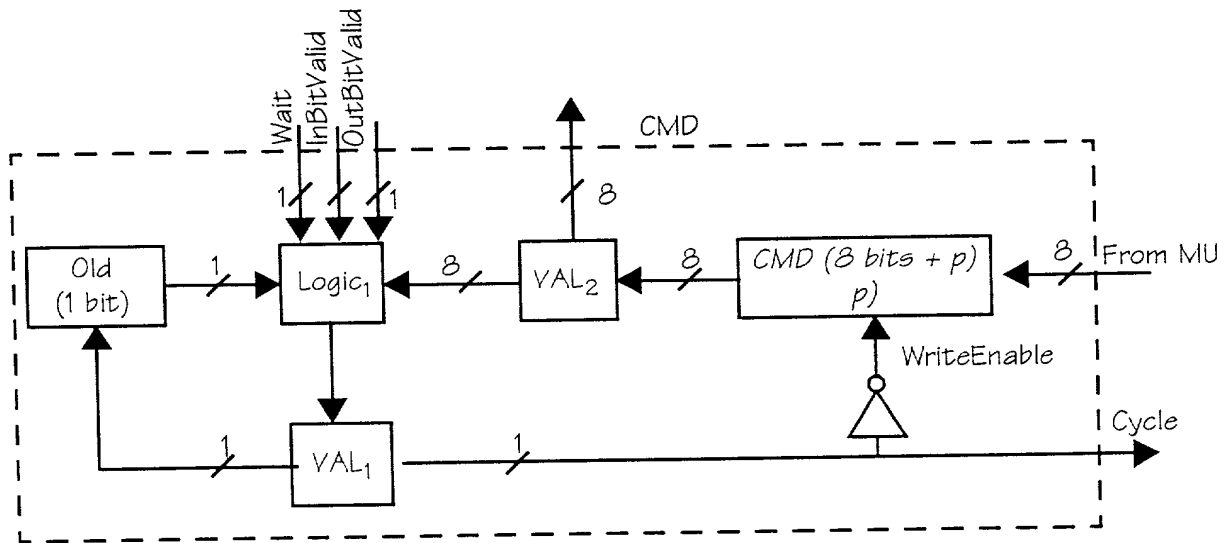


FIG. 187

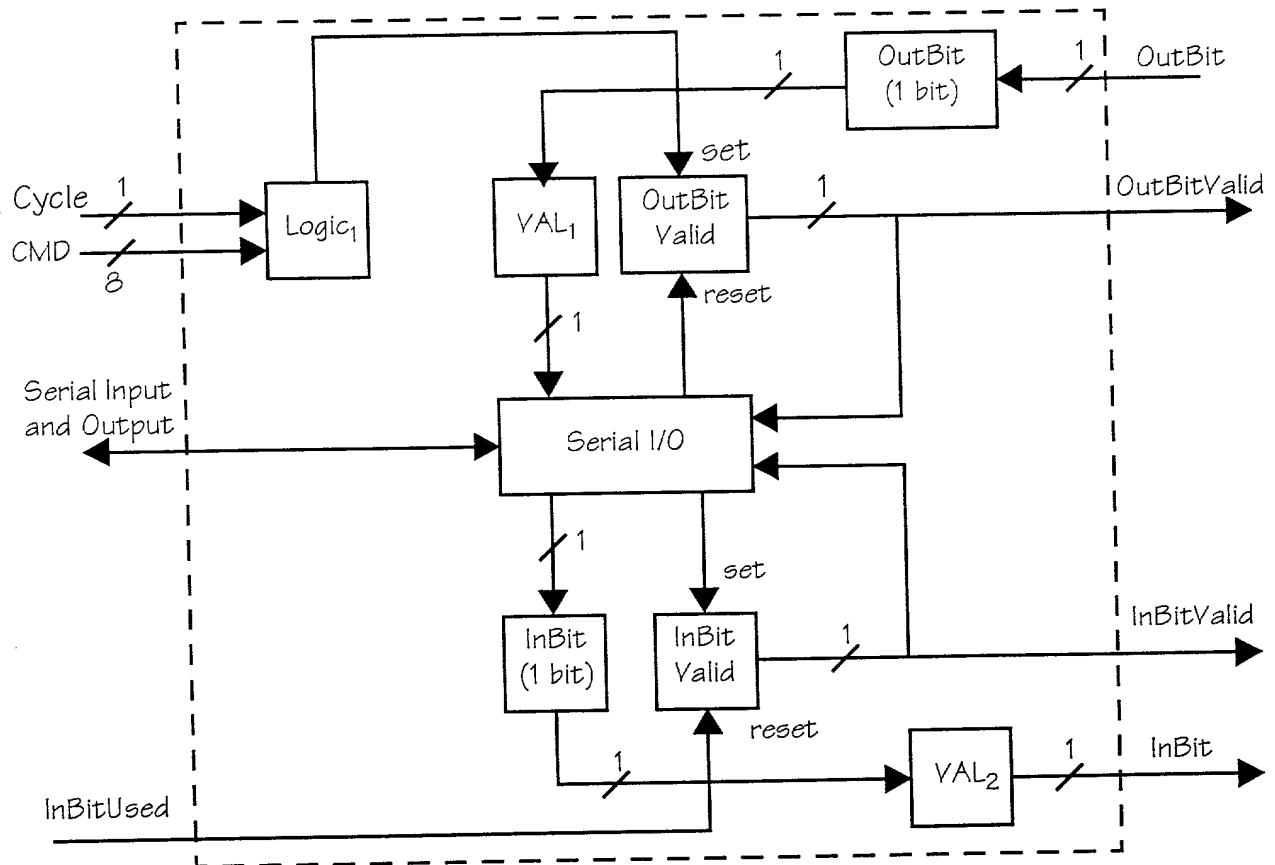


FIG. 188



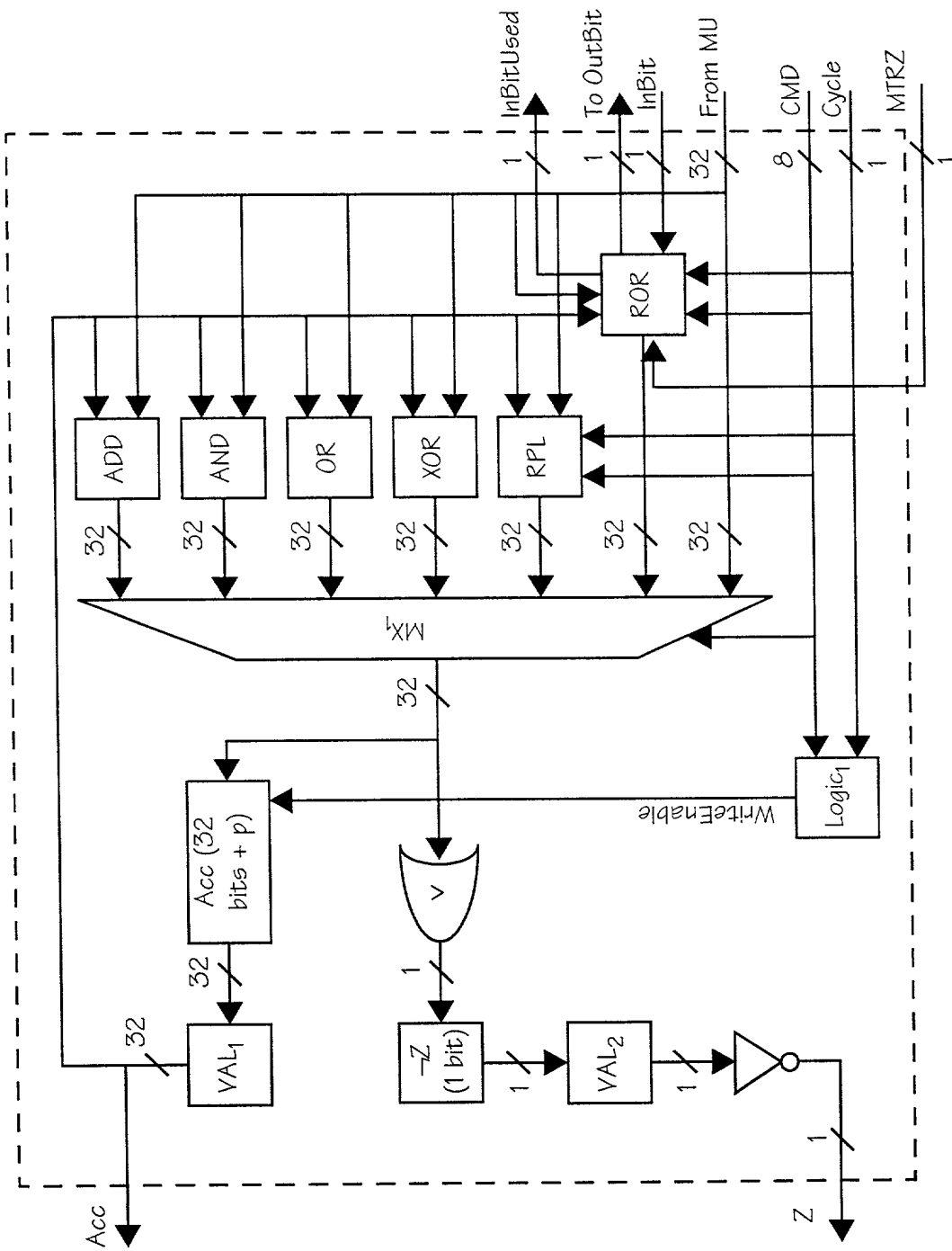


FIG. 189

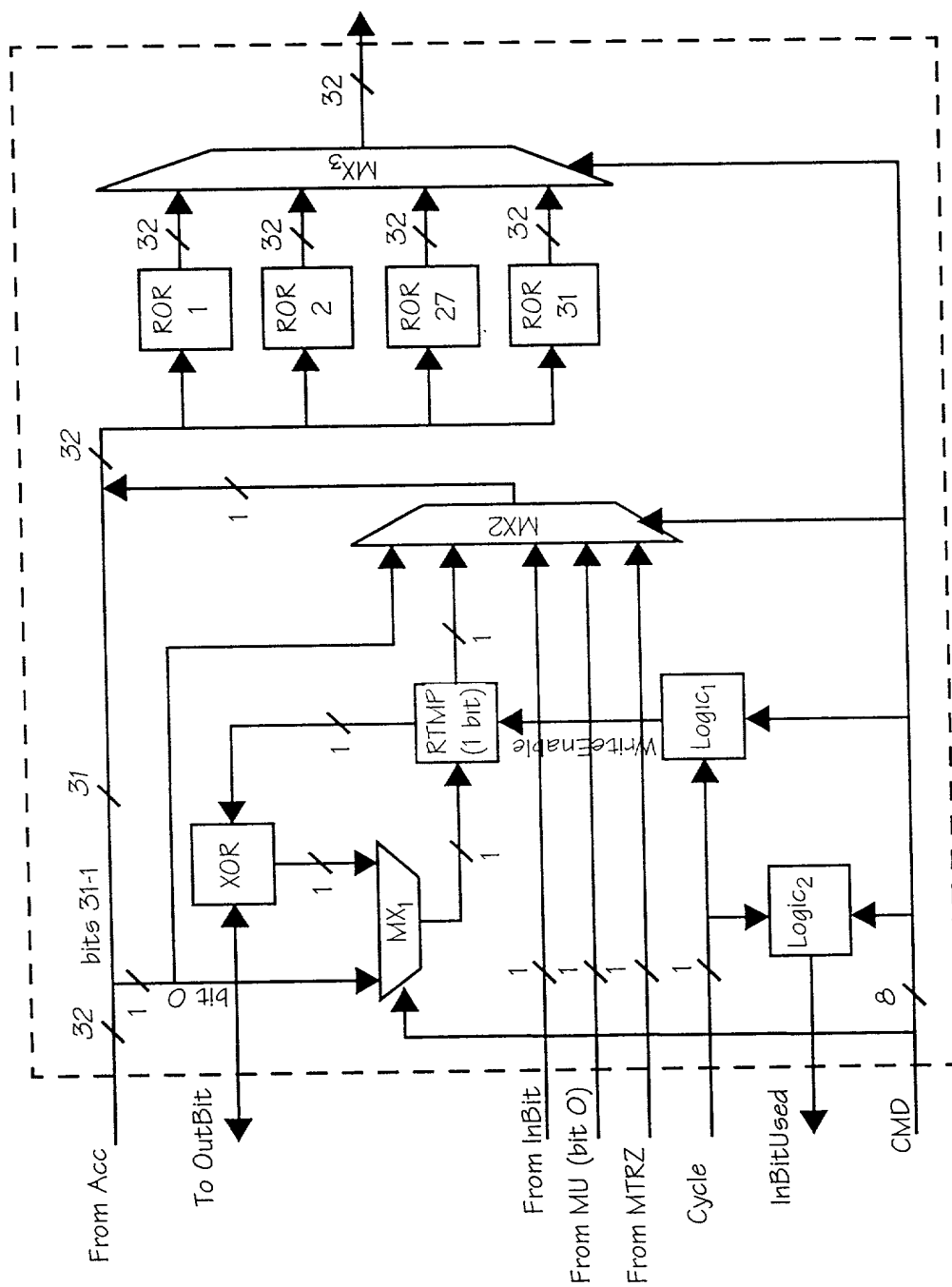


FIG. 190



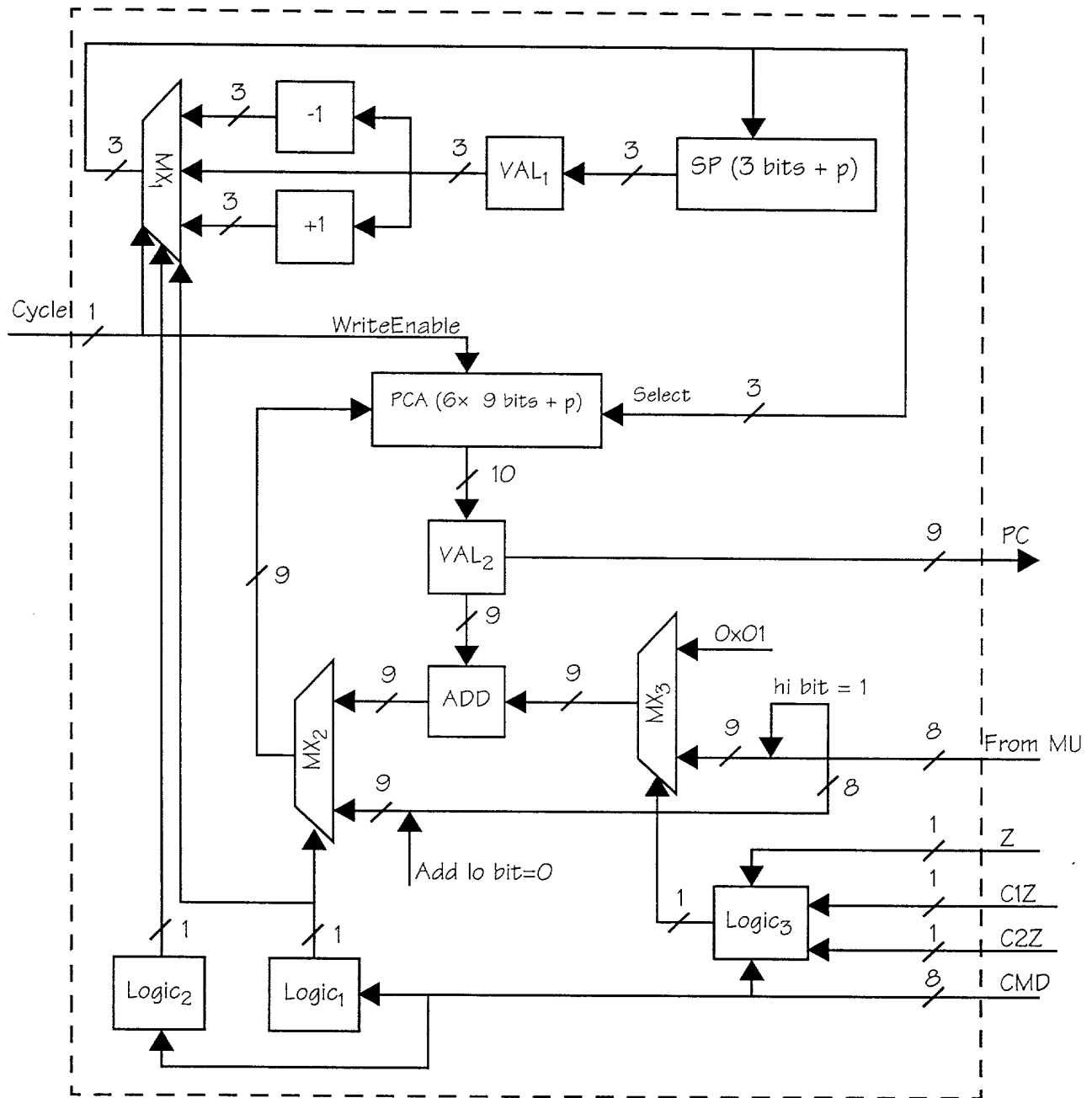


FIG. 192

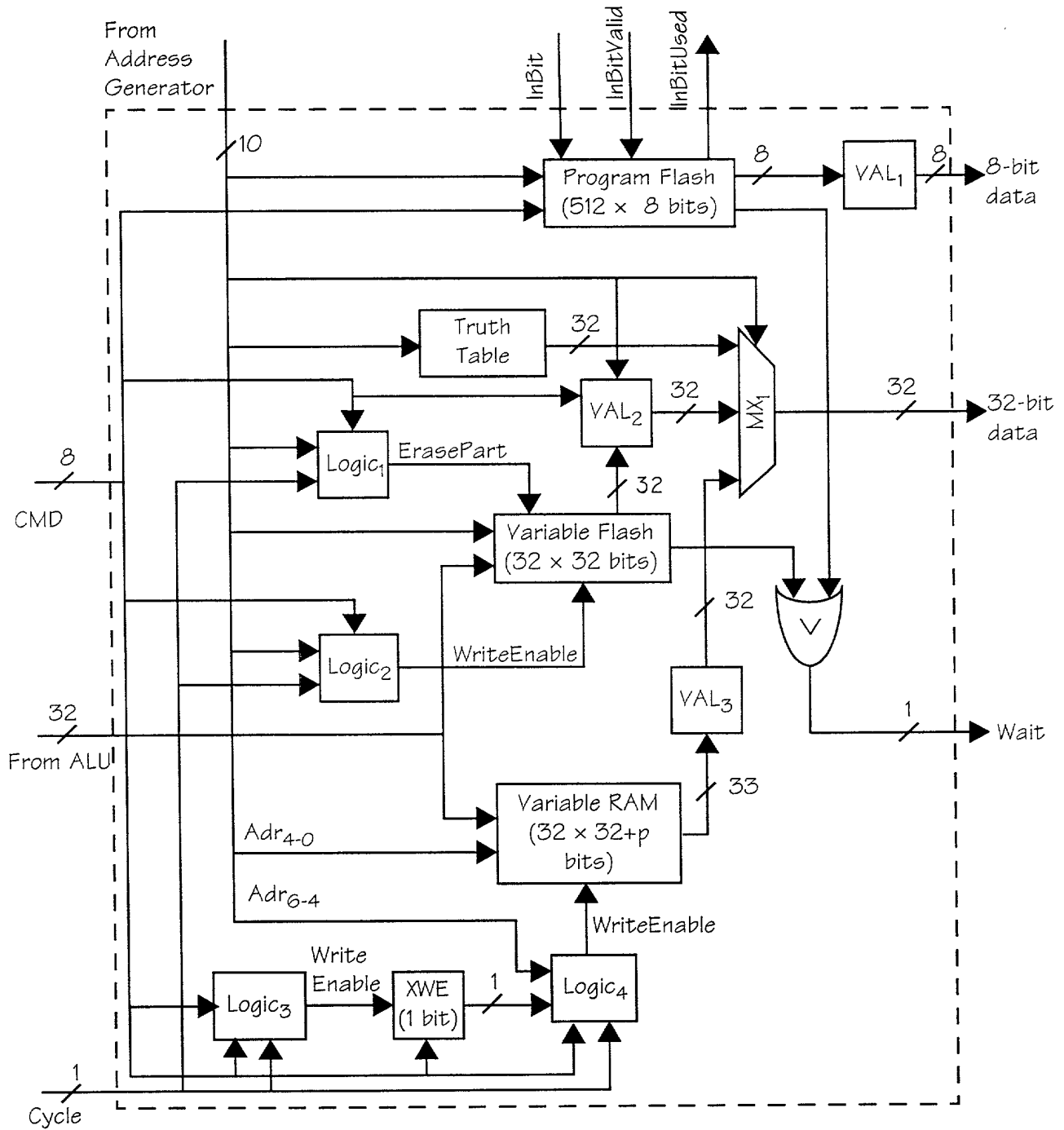


FIG. 193

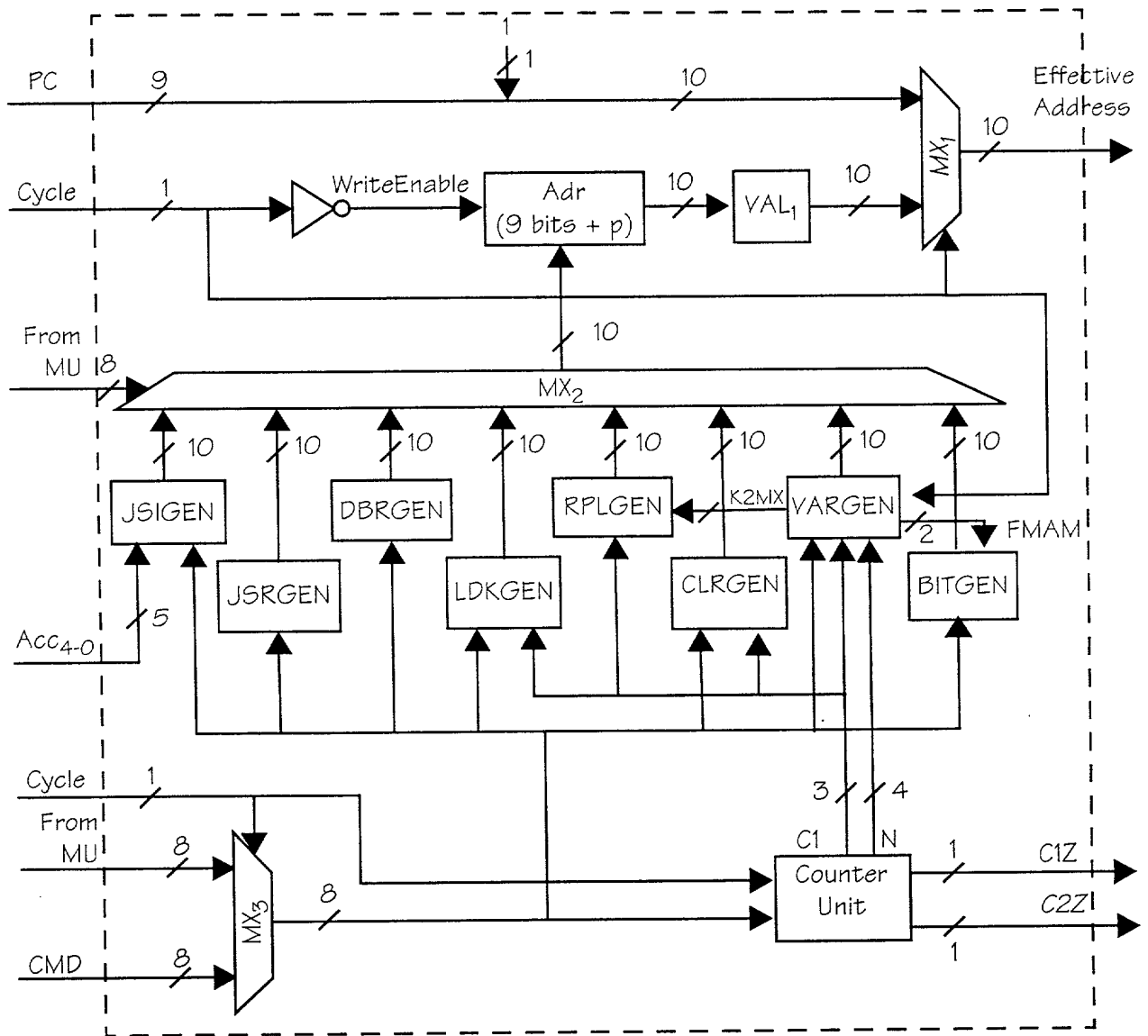


FIG. 194

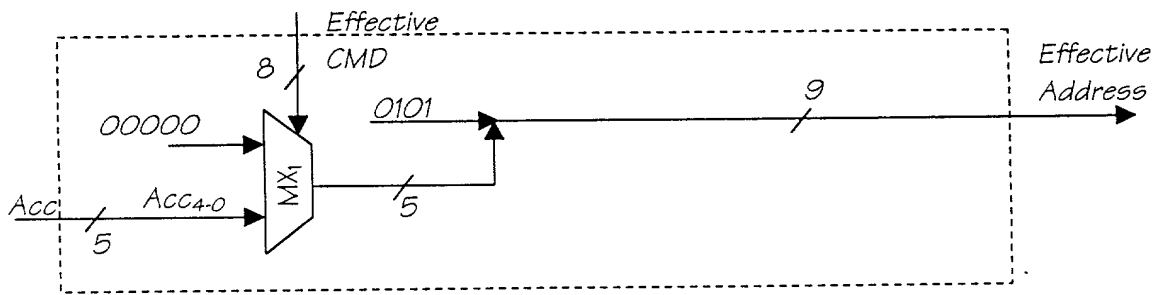


FIG. 195

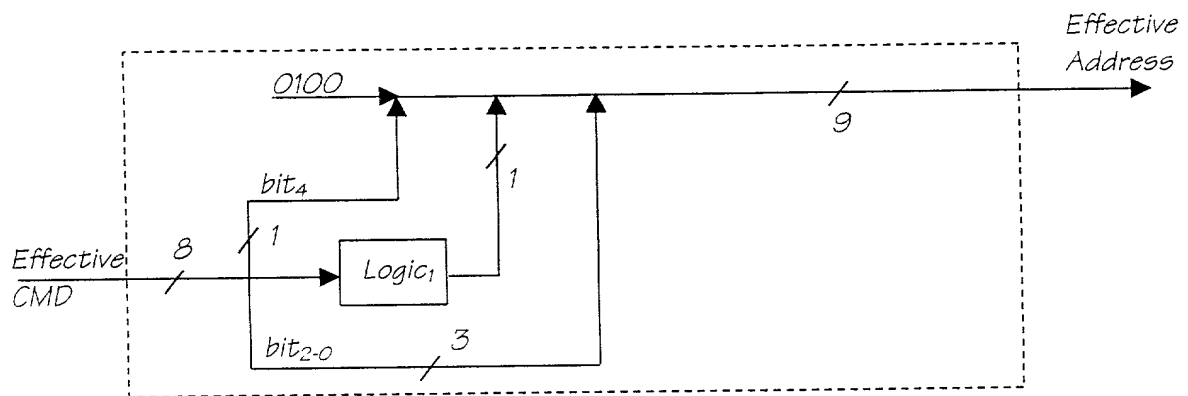


FIG. 196

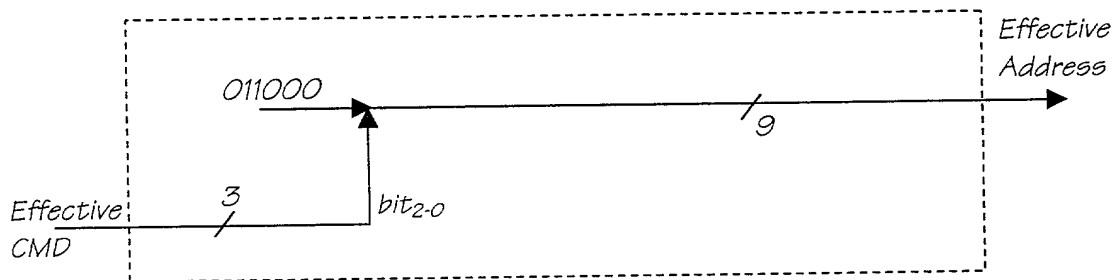


FIG. 197

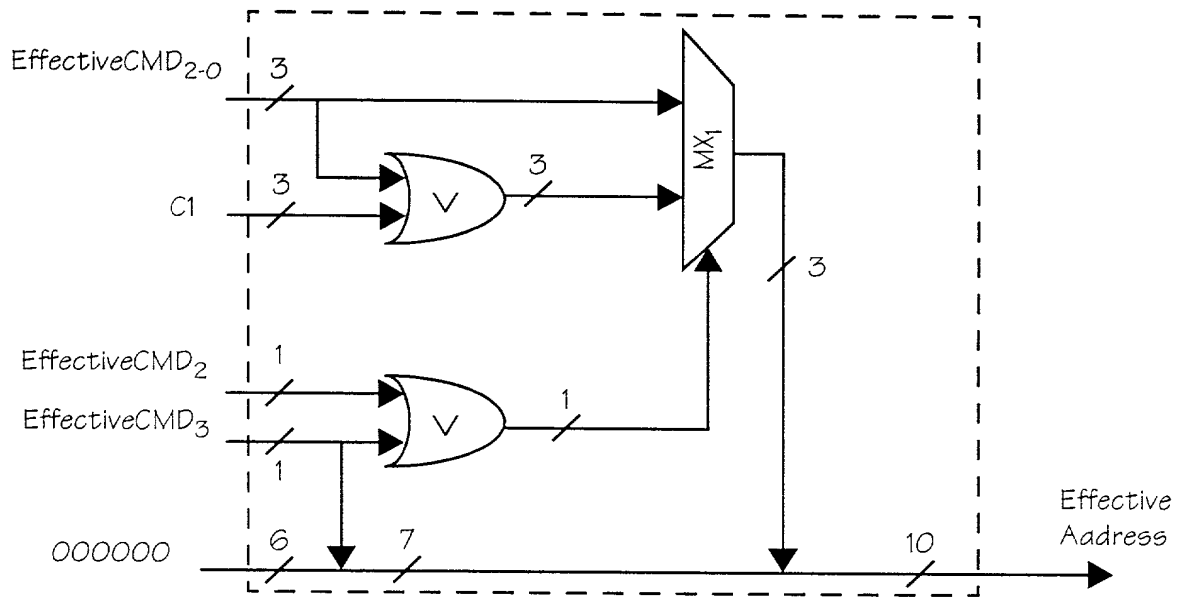


FIG. 198

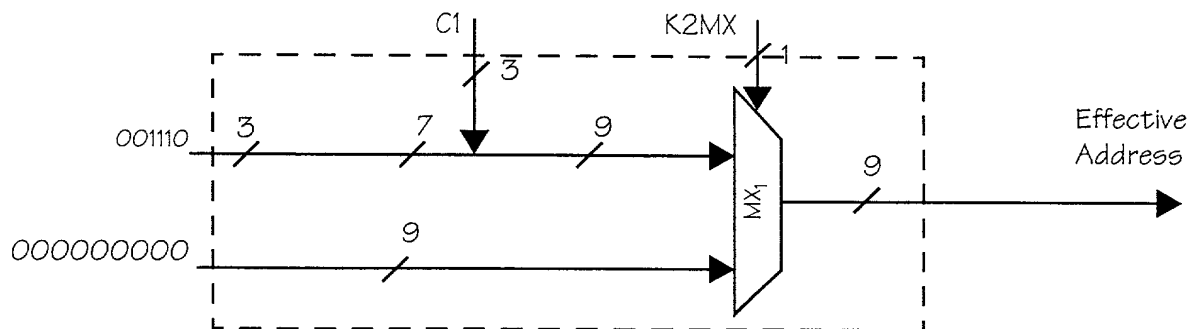


FIG. 199



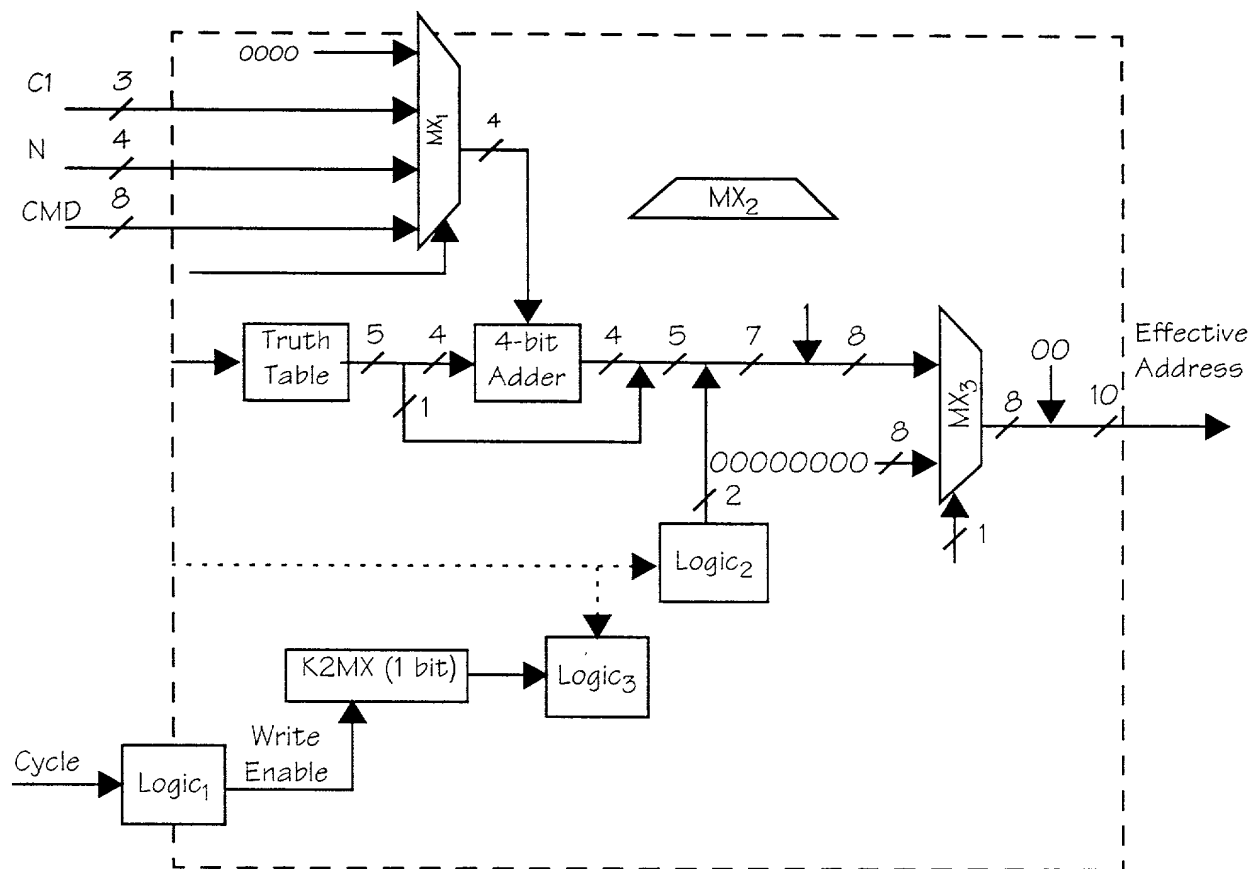


FIG. 200

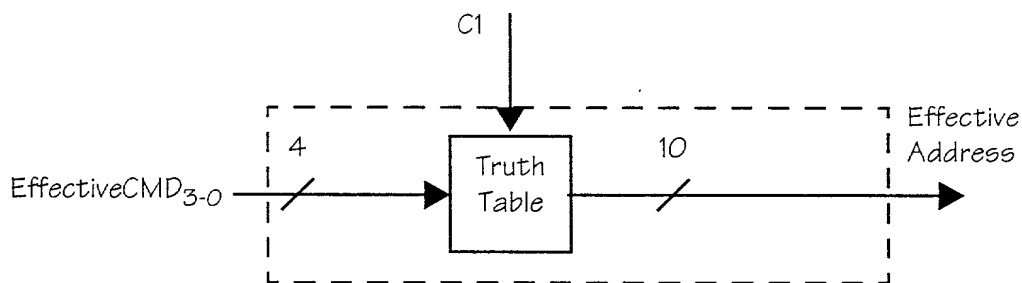


FIG. 201

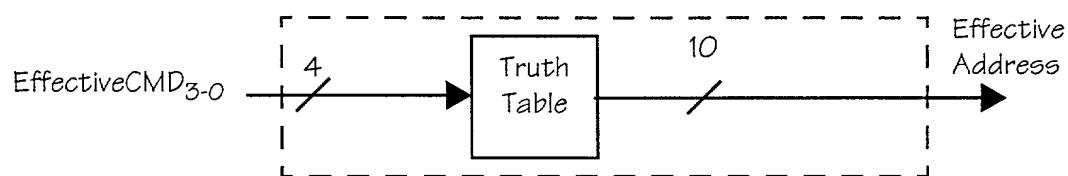


FIG. 202

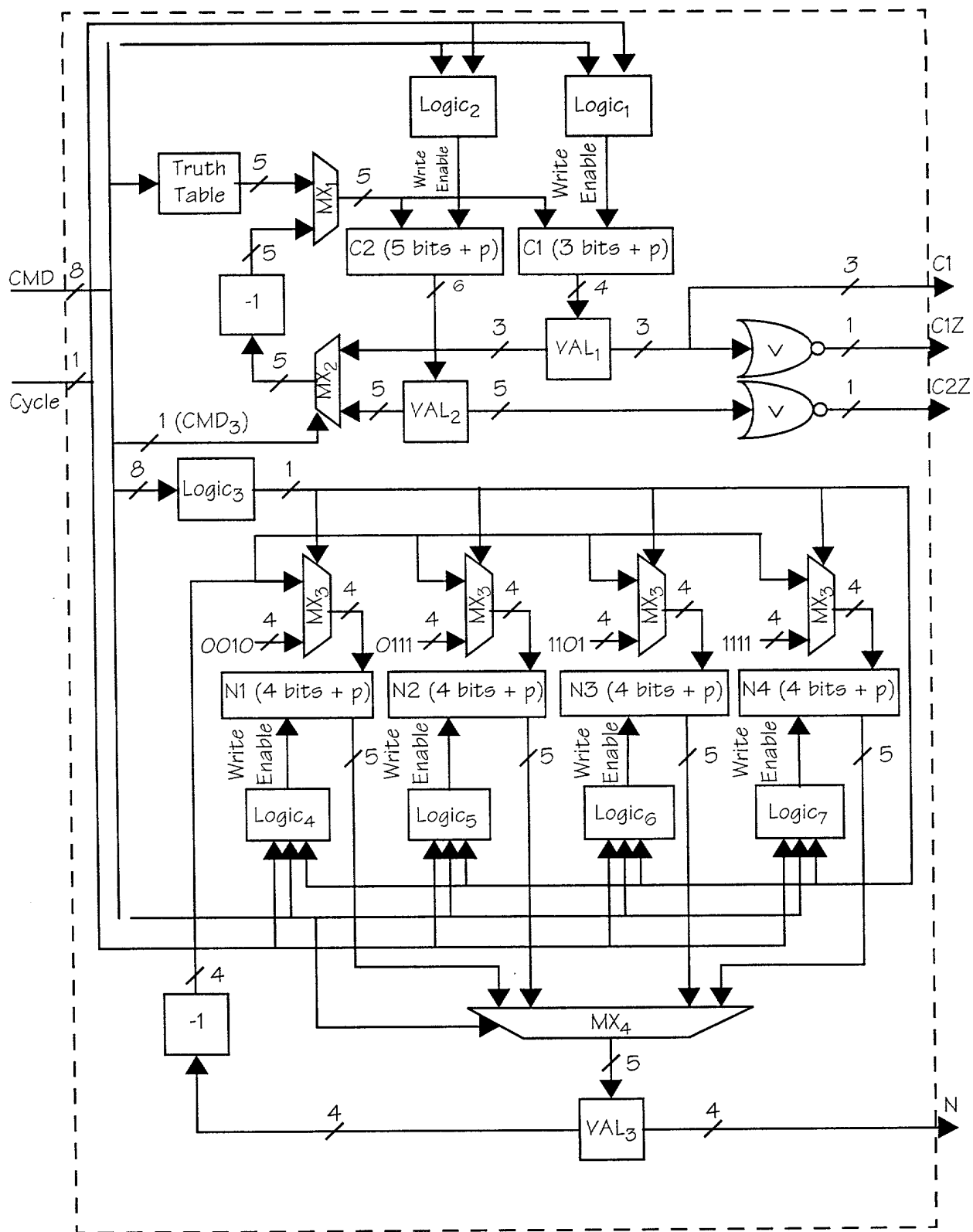


FIG. 203

705

DATA TYPE	BITS
Factory Code	16
Batch Number	32
Serial Number	48
Manufacturing Date	16
Media Length	24
Media Type	8
Preprinted Media Length	16
Cyan Ink Viscosity	8
Magenta Ink Viscosity	8
Yellow Ink Viscosity	8
Cyan Drop Volume	8
Magenta Drop Volume	8
Yellow Drop Volume	8
Cyan Ink Color	24
Magenta Ink Color	24
Yellow Ink Color	24
Remaining-media Length Indicator	16
Authentication Key	128
Copyrightable bit pattern	512
Reserved for Camera Use	88
TOTAL	1024

728

FIG. 204

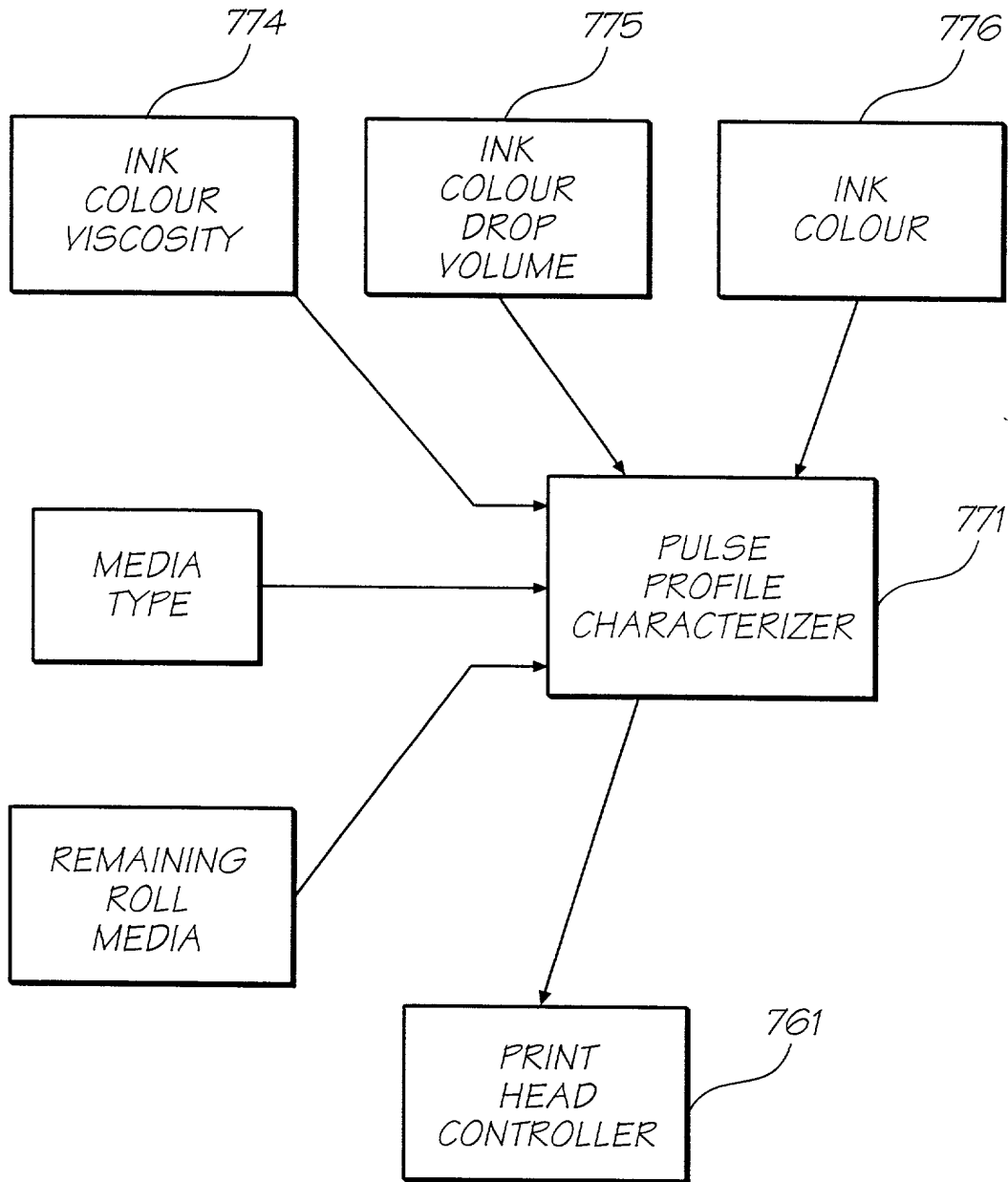


FIG. 205

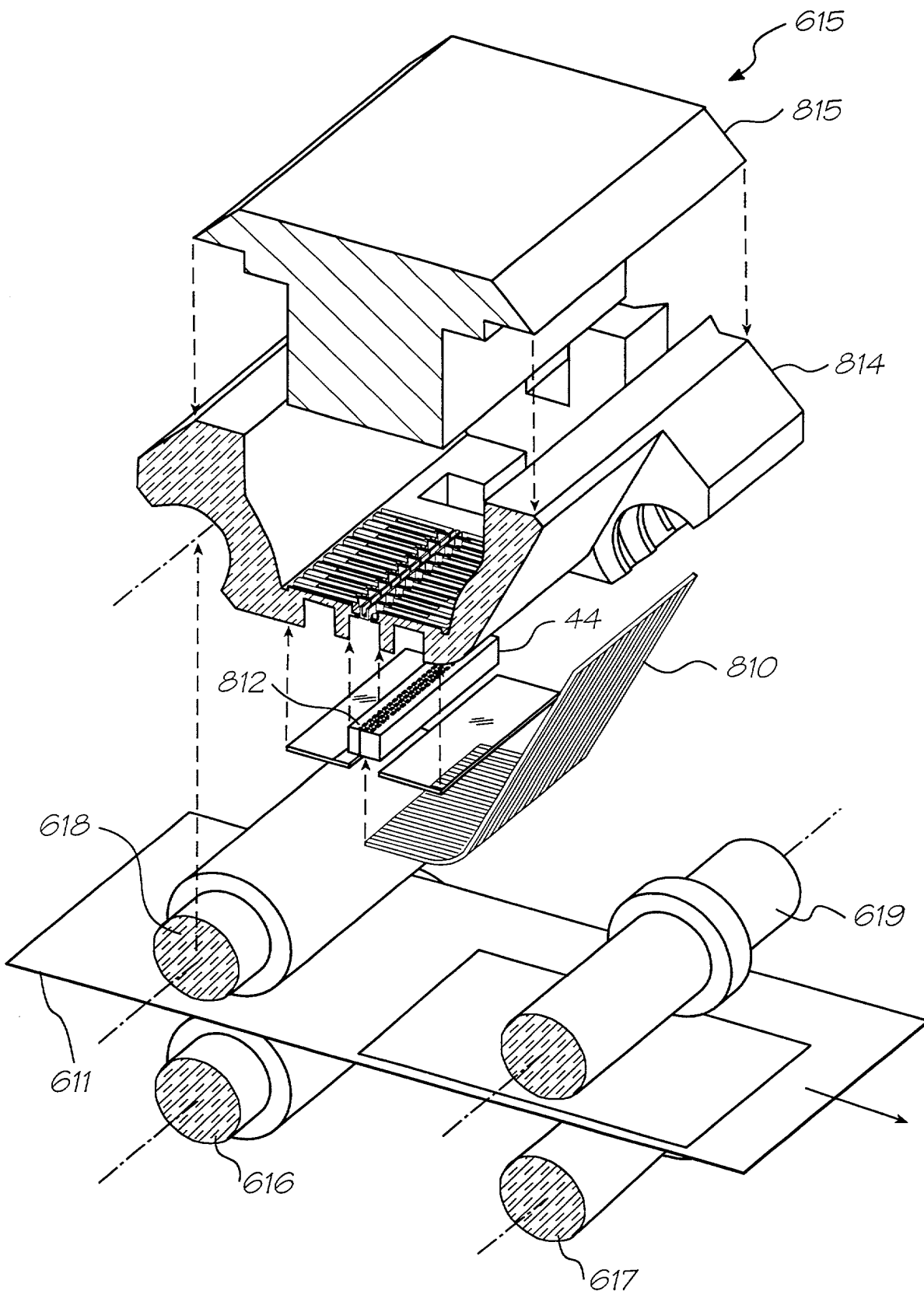


FIG. 206

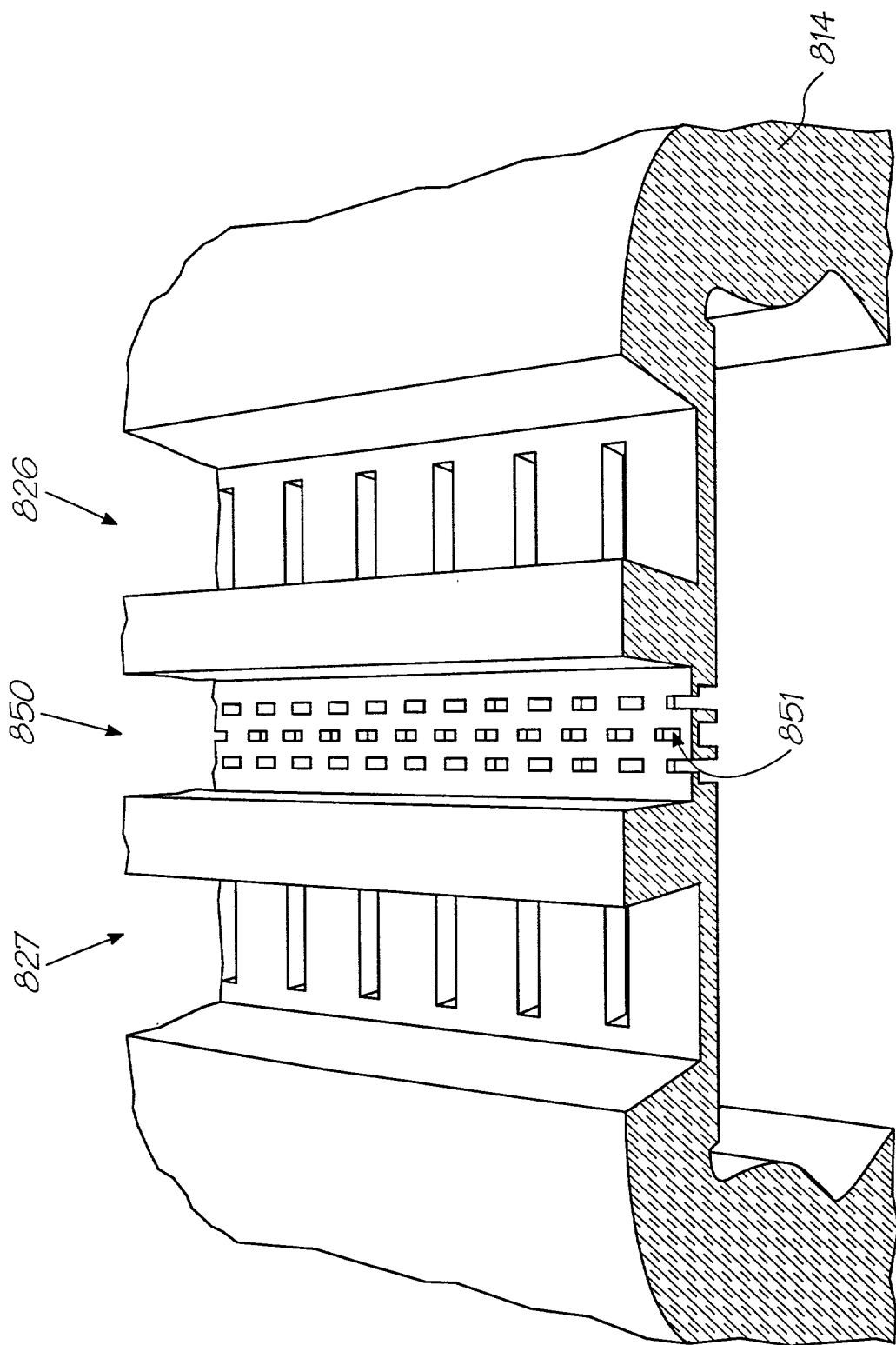


FIG. 208

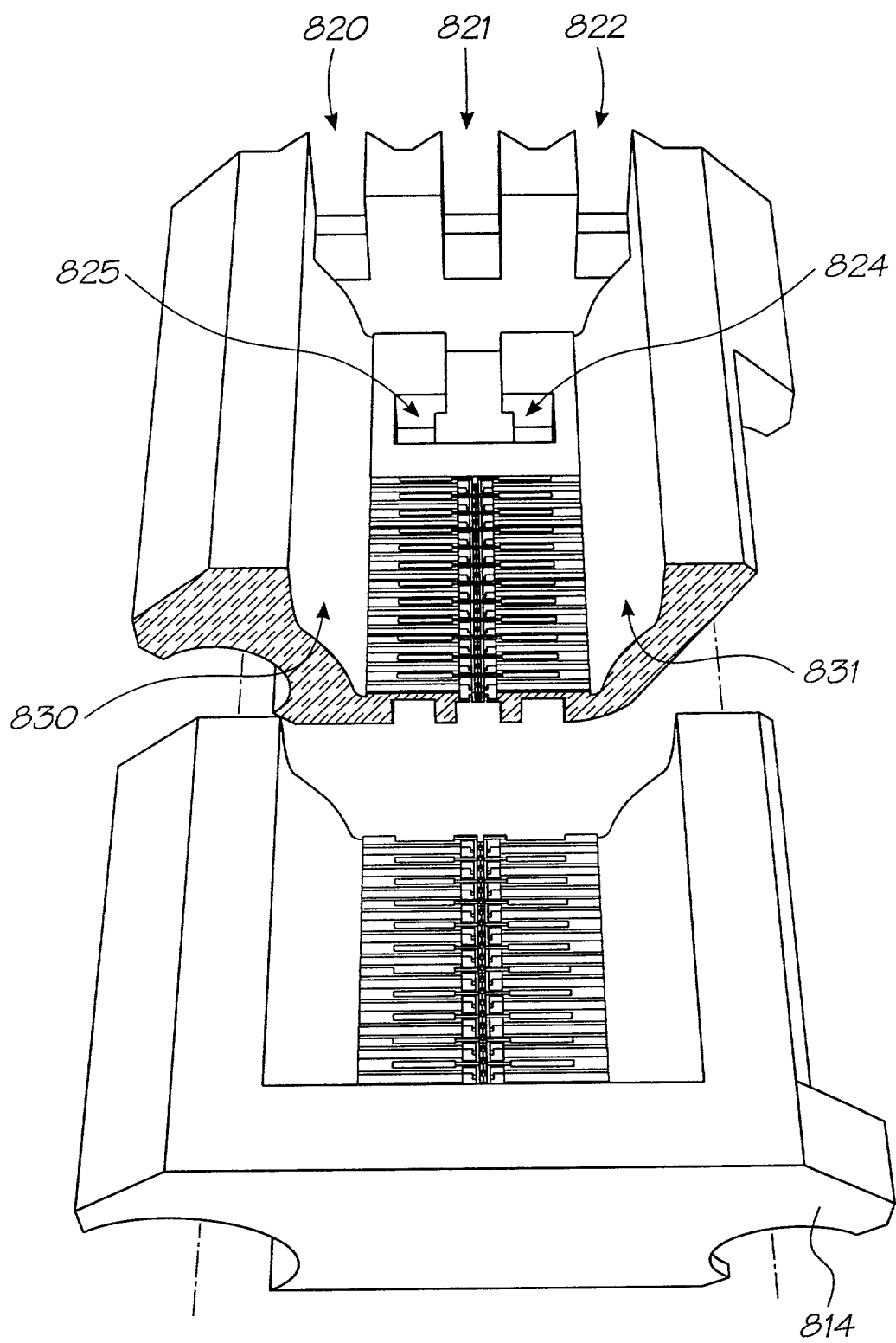


FIG. 209

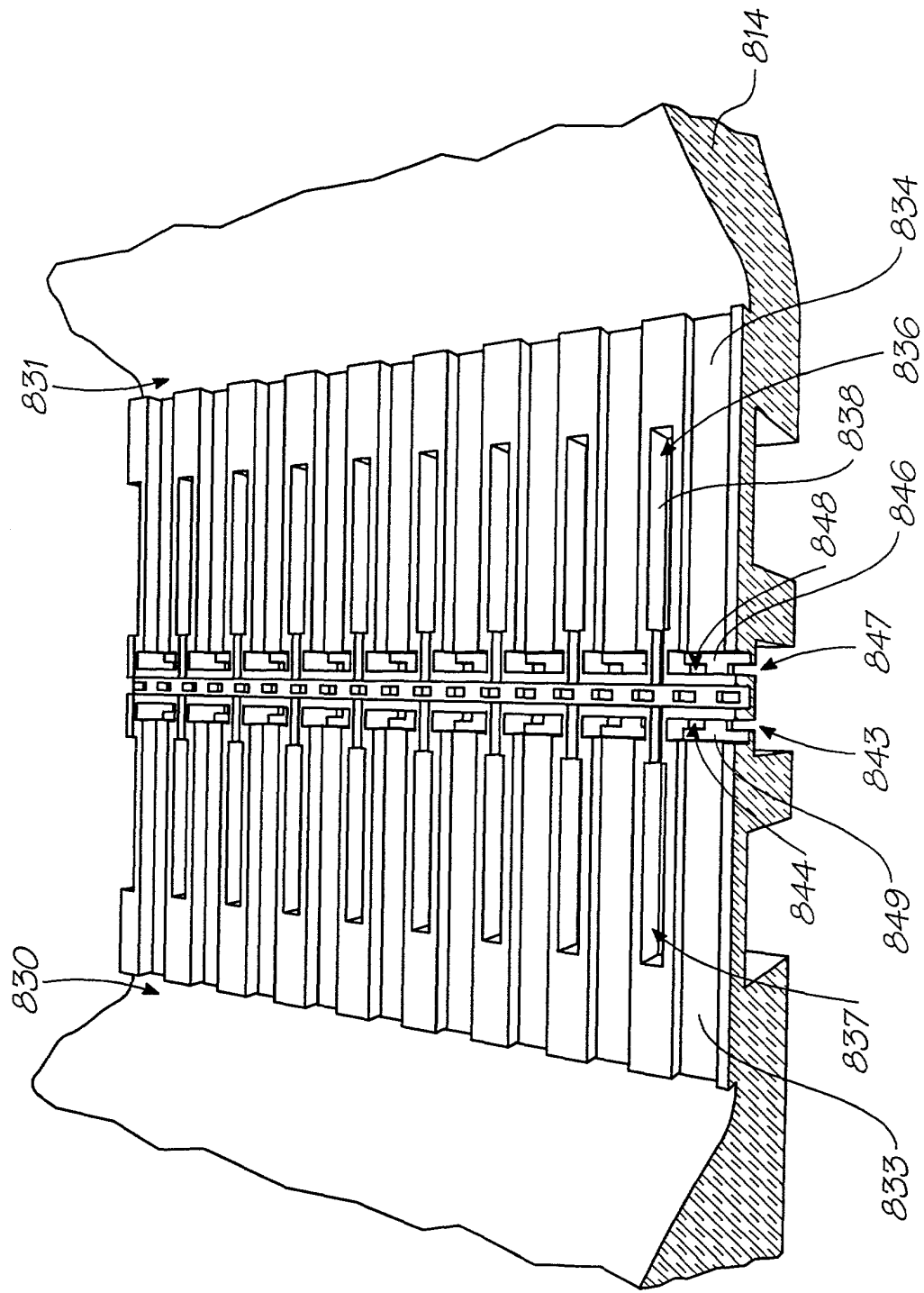


FIG. 210



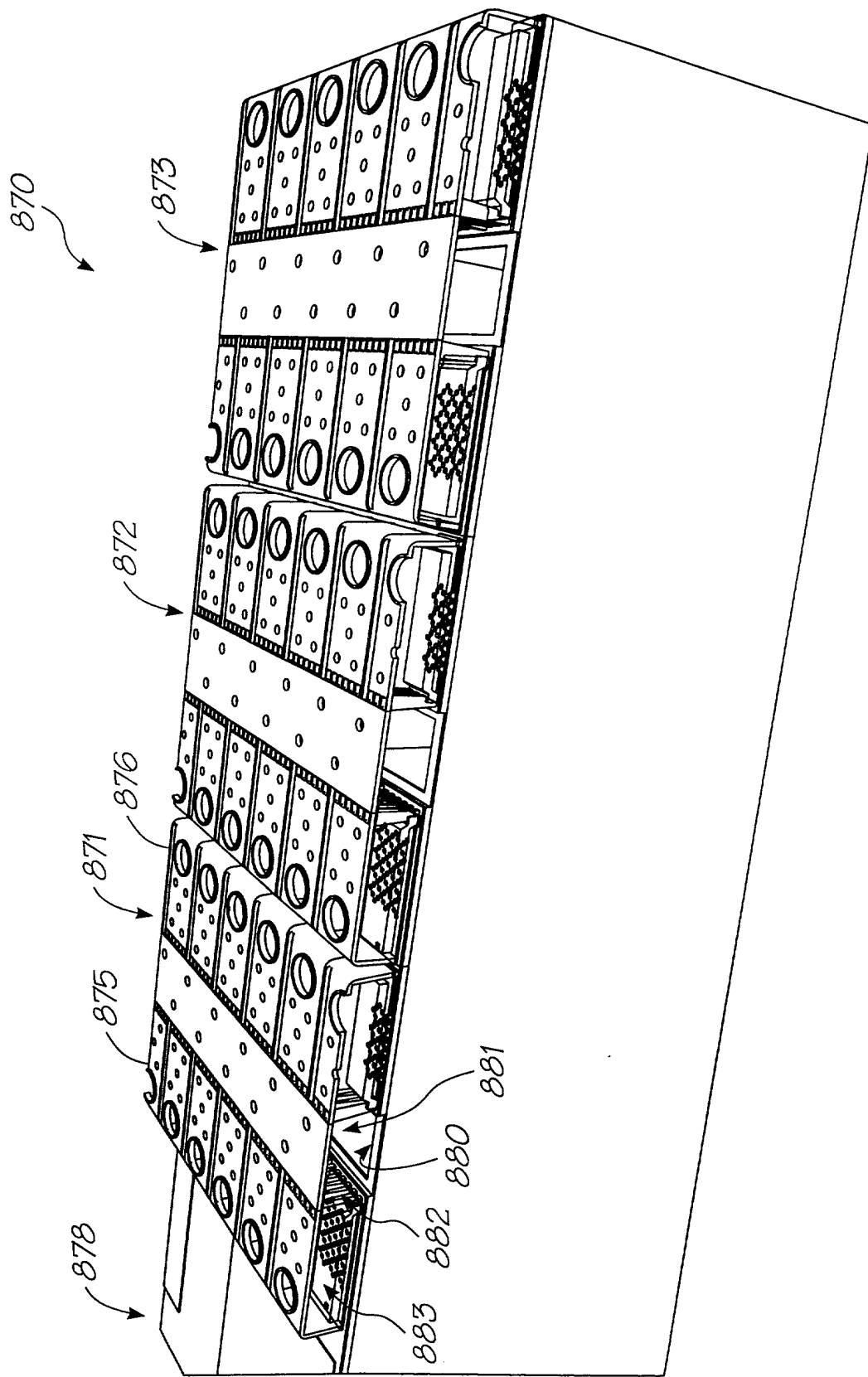


FIG. 211

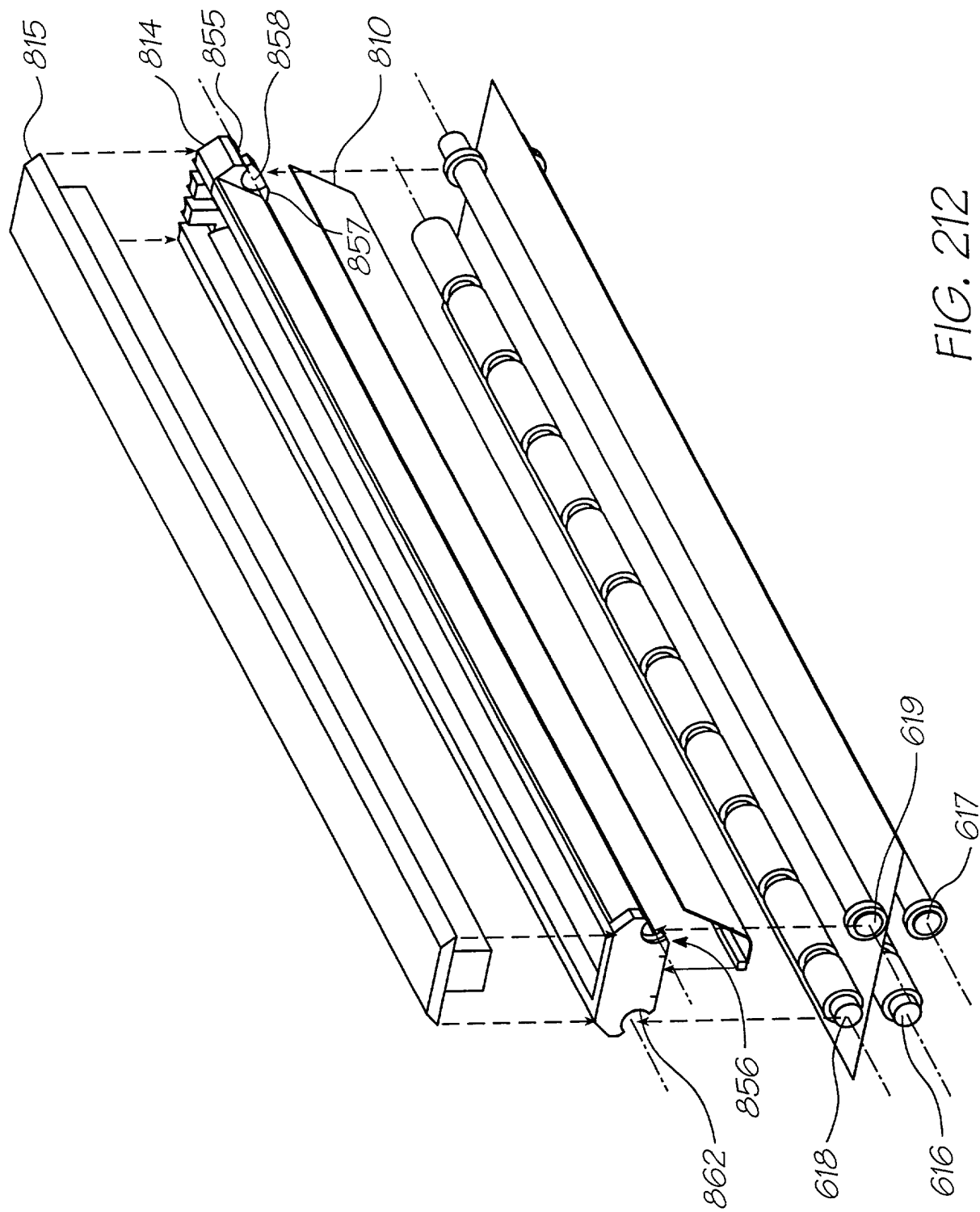


FIG. 212

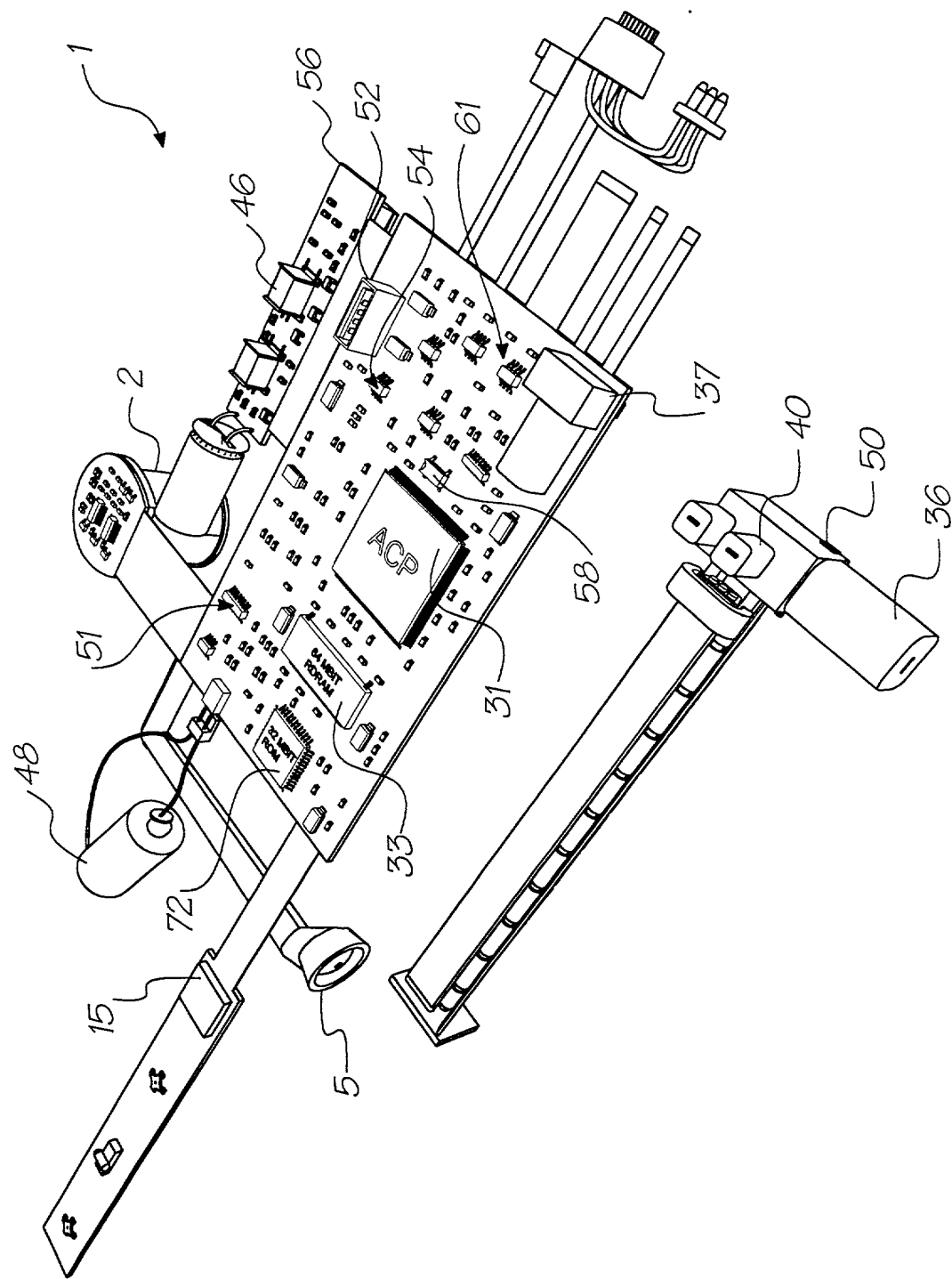


FIG. 213

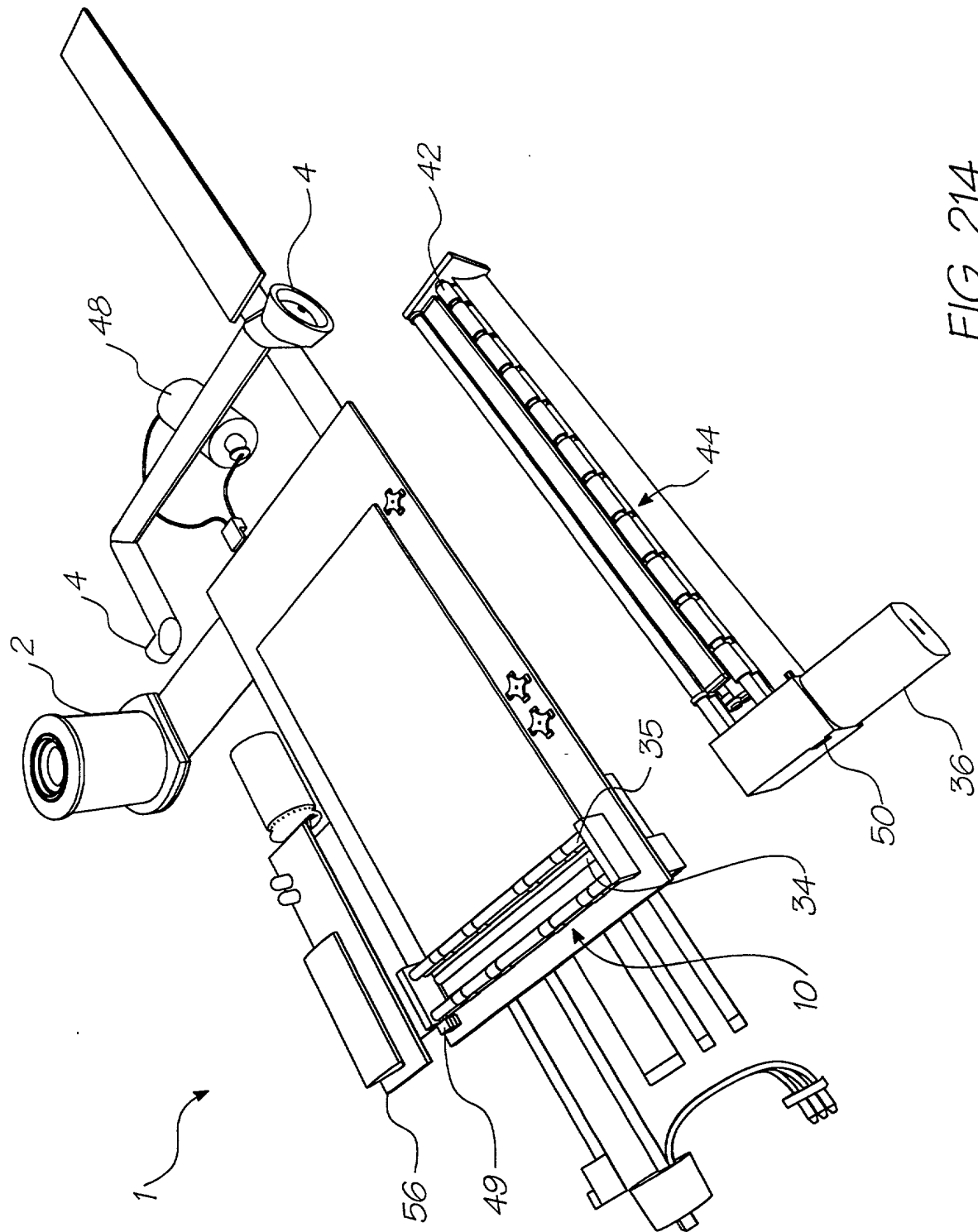


FIG. 214

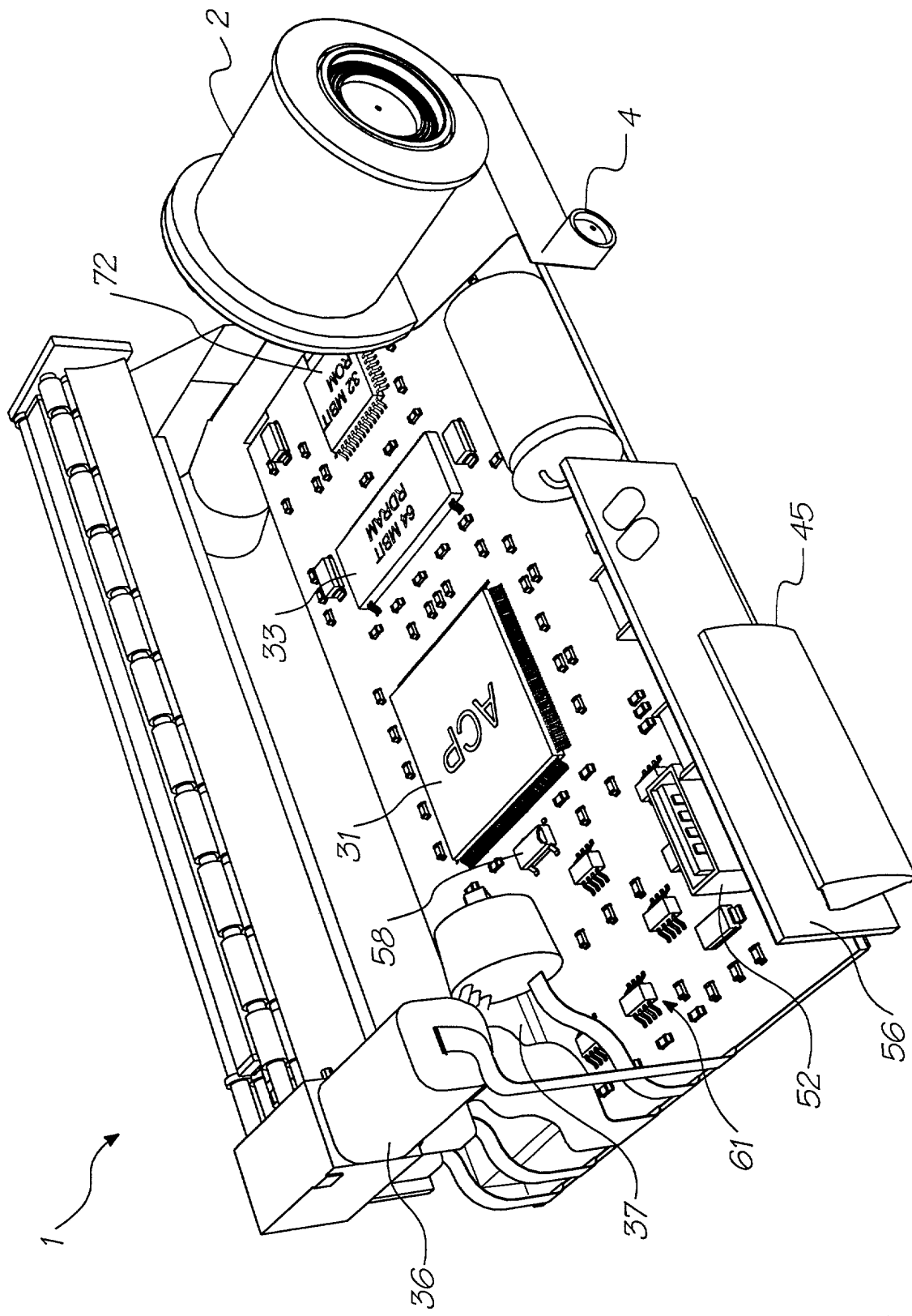


FIG. 215

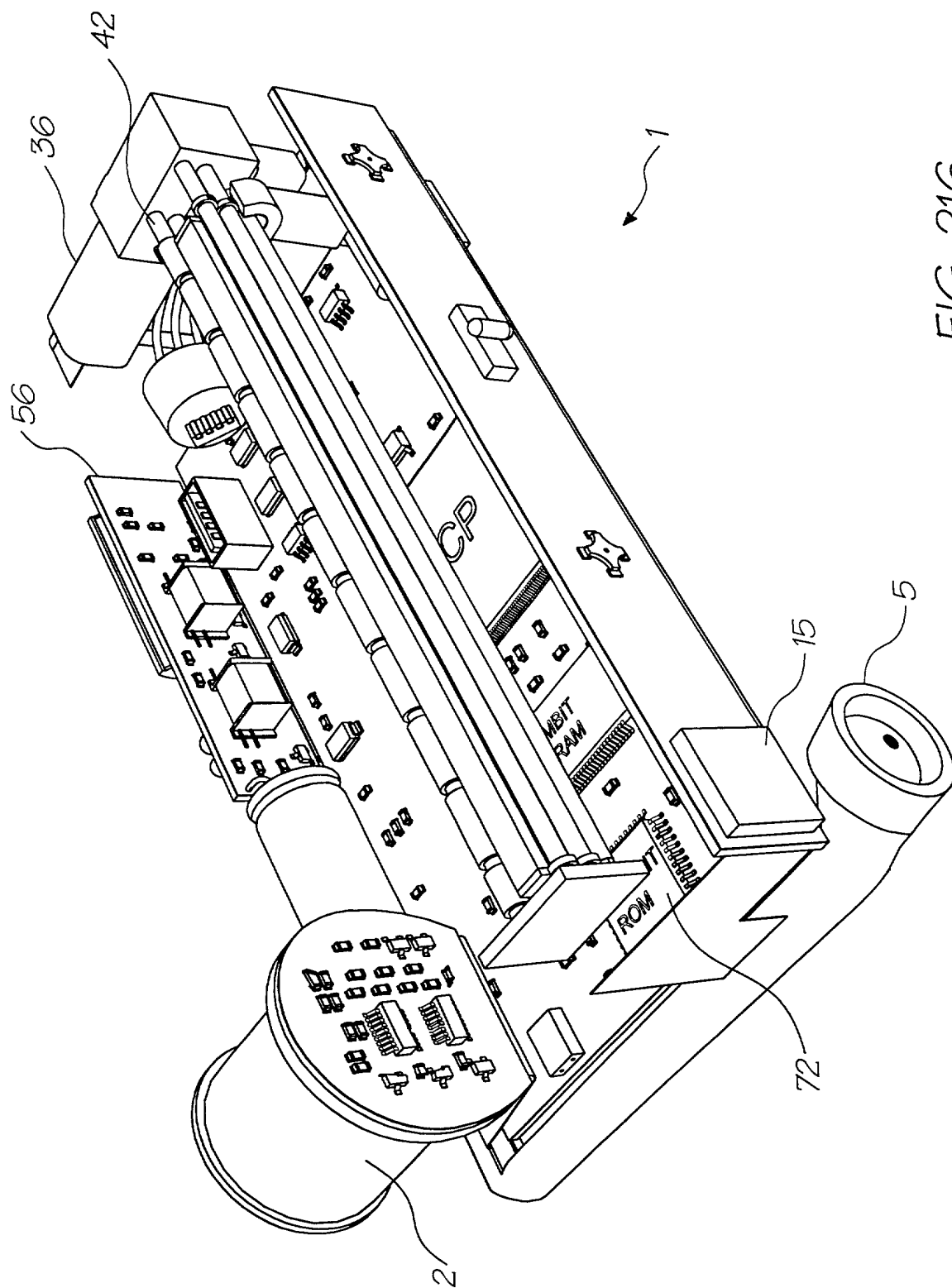


FIG. 216

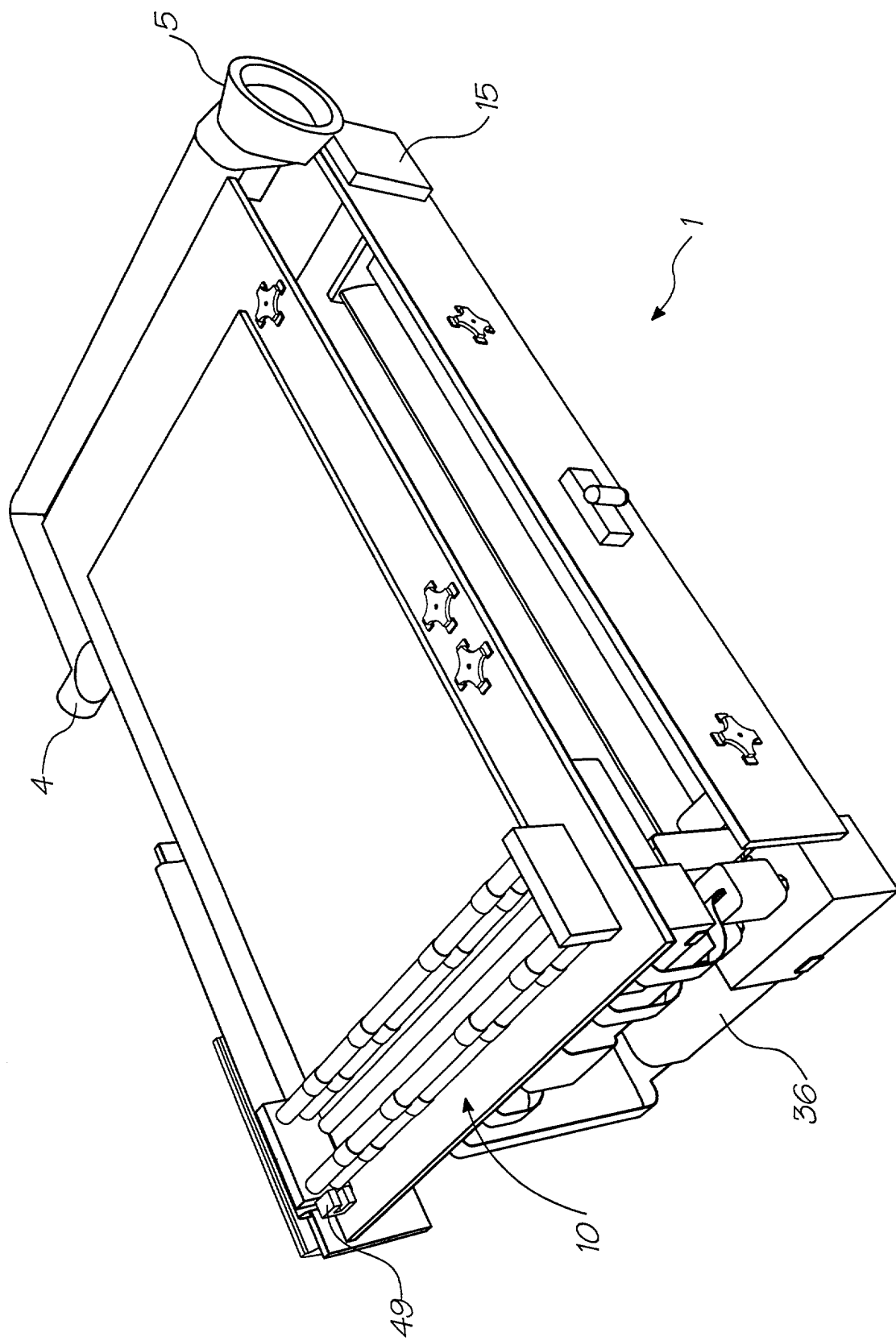


FIG. 217

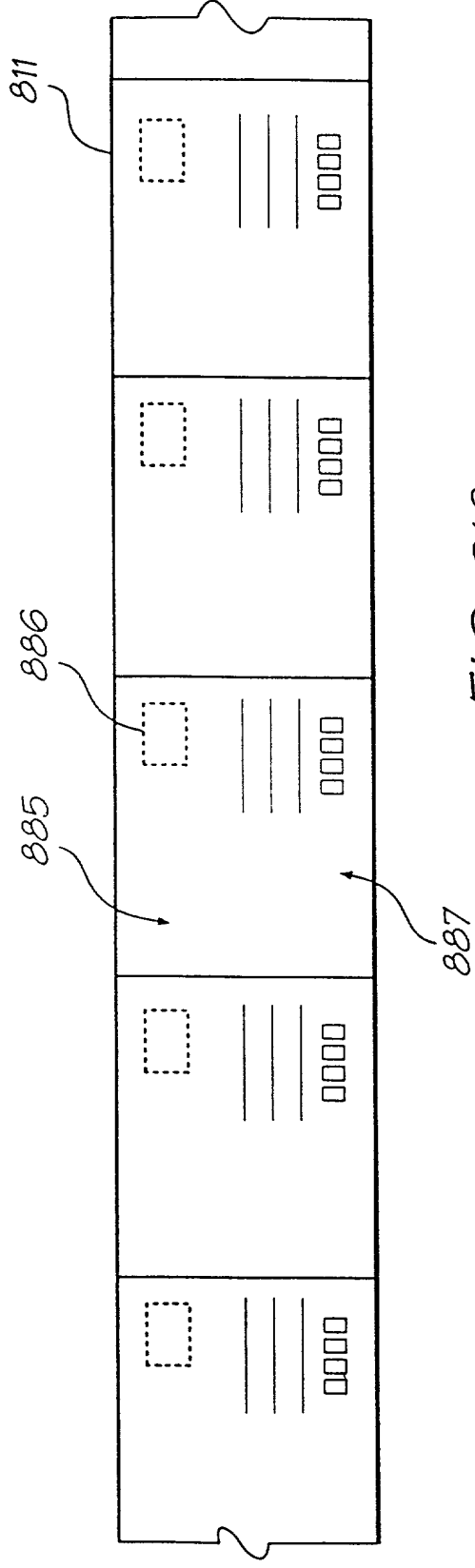


FIG. 218

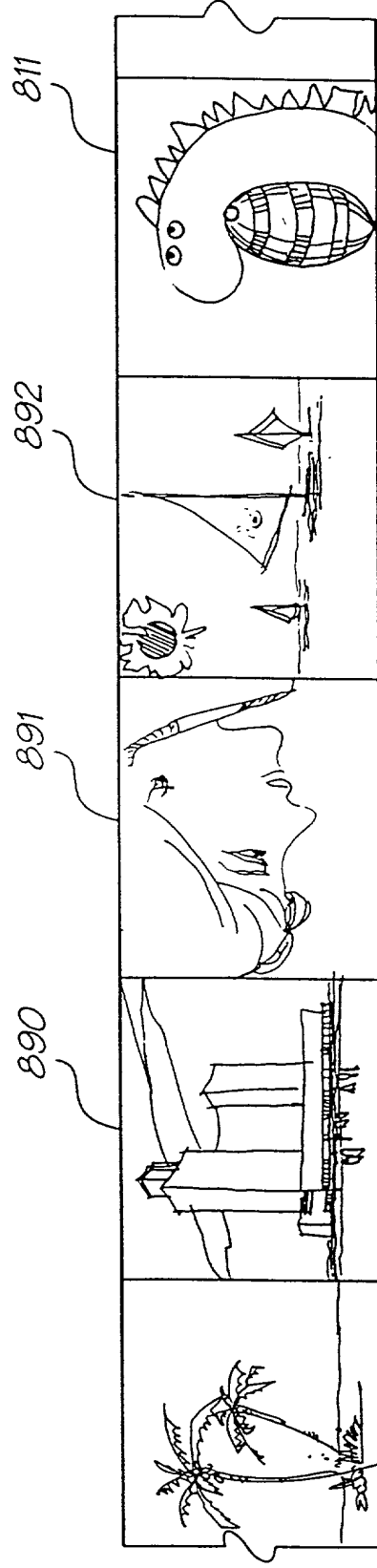


FIG. 219



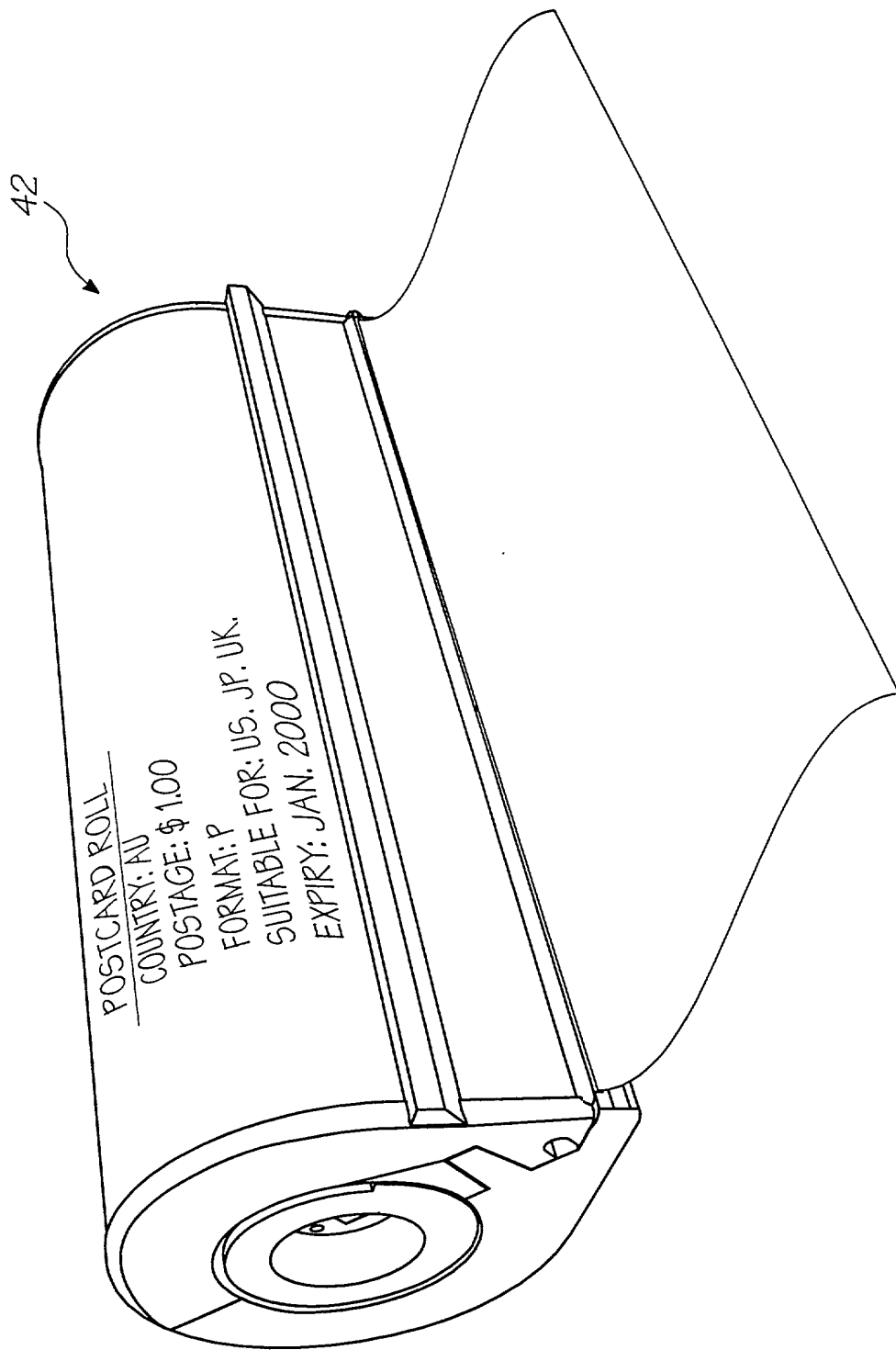


FIG. 220

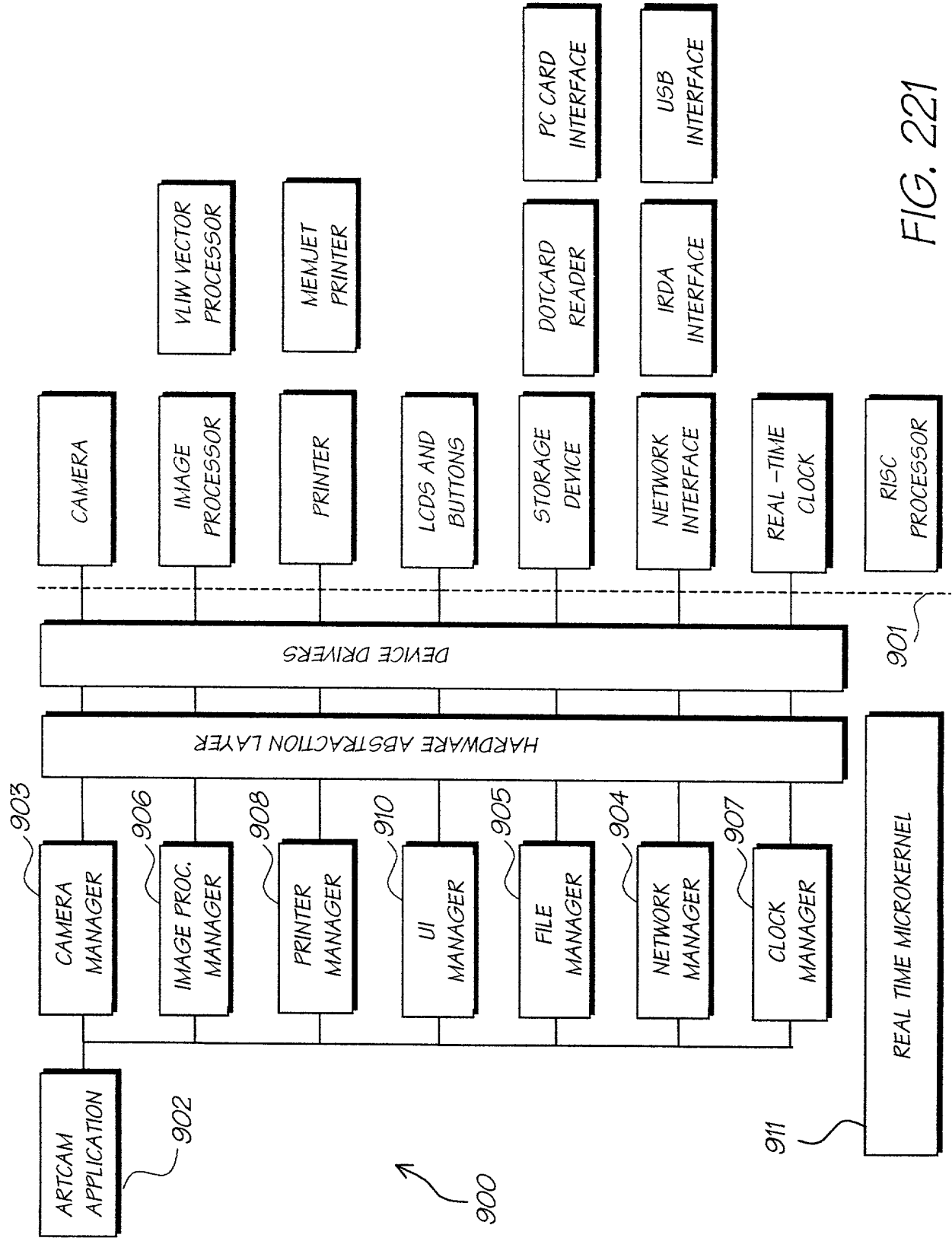


FIG. 221

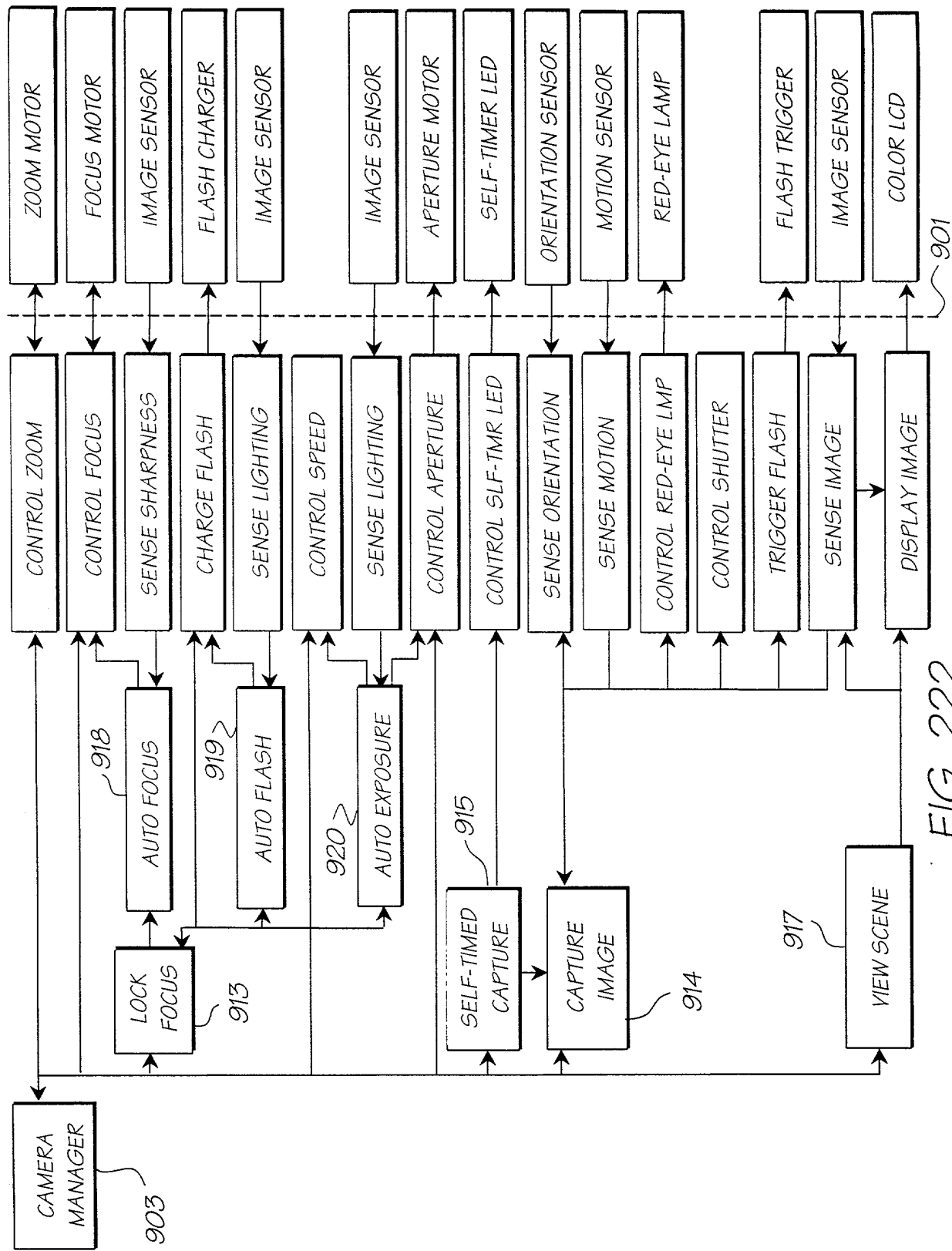


FIG. 222

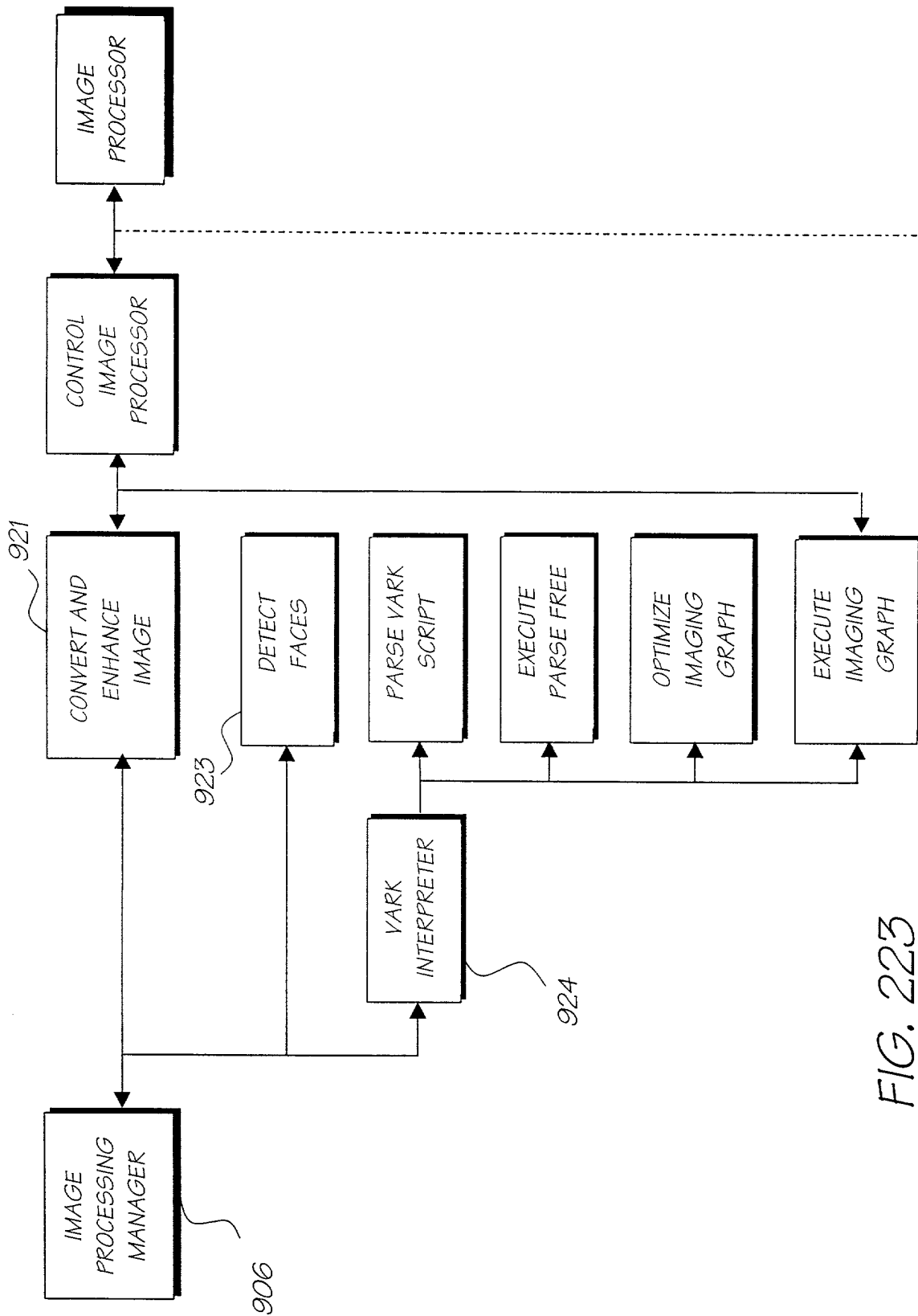


FIG. 223

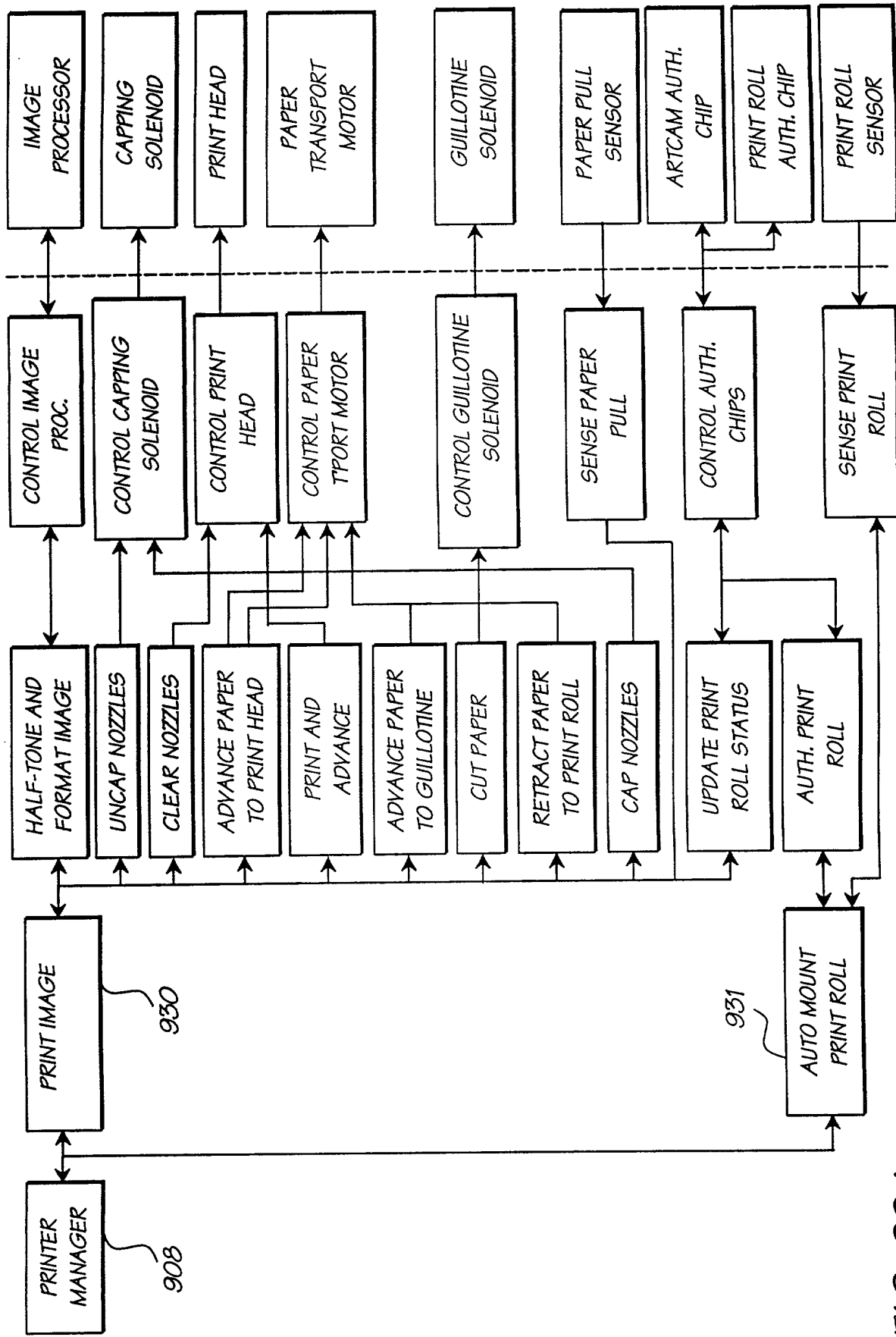


FIG. 224

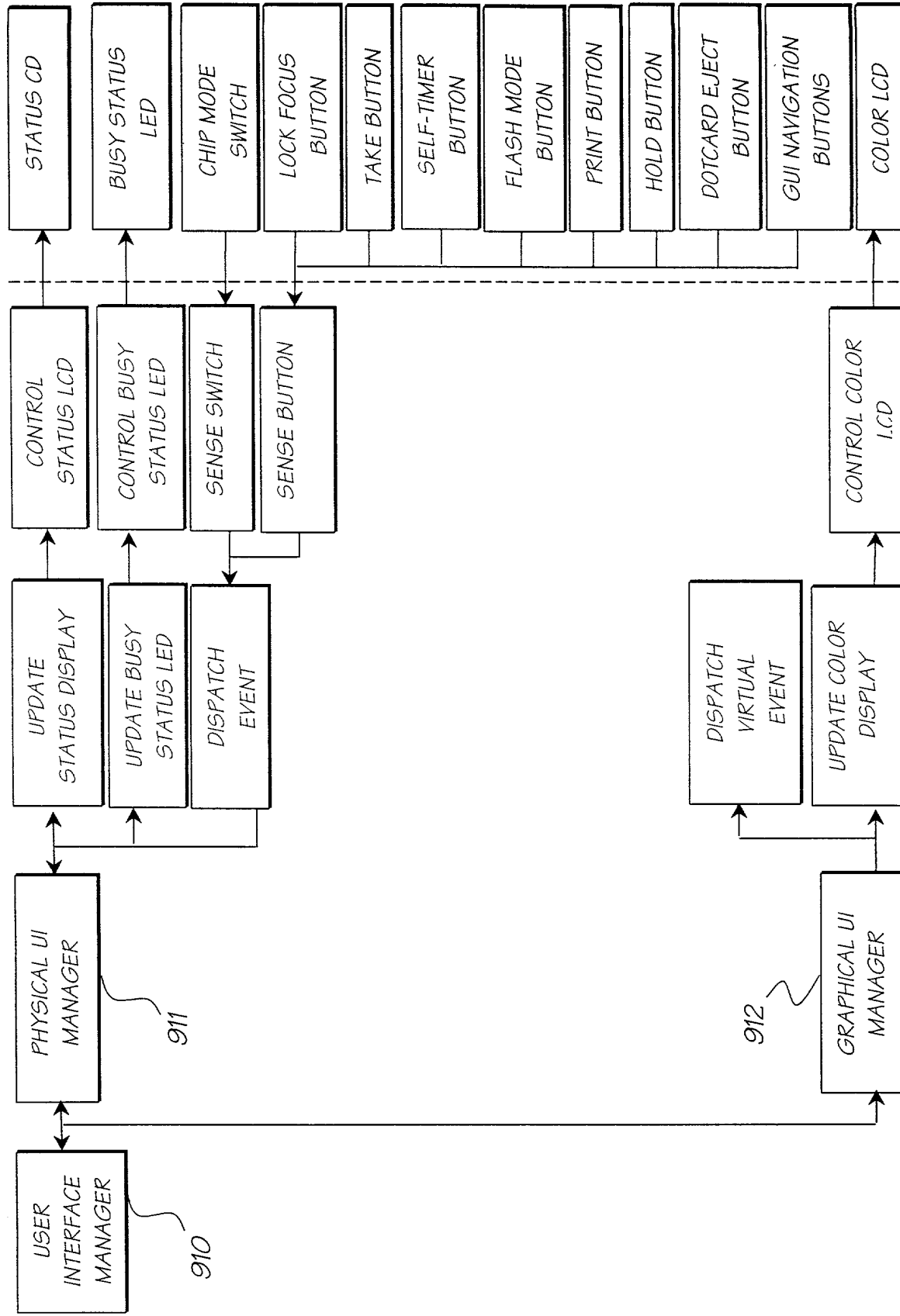


FIG. 225

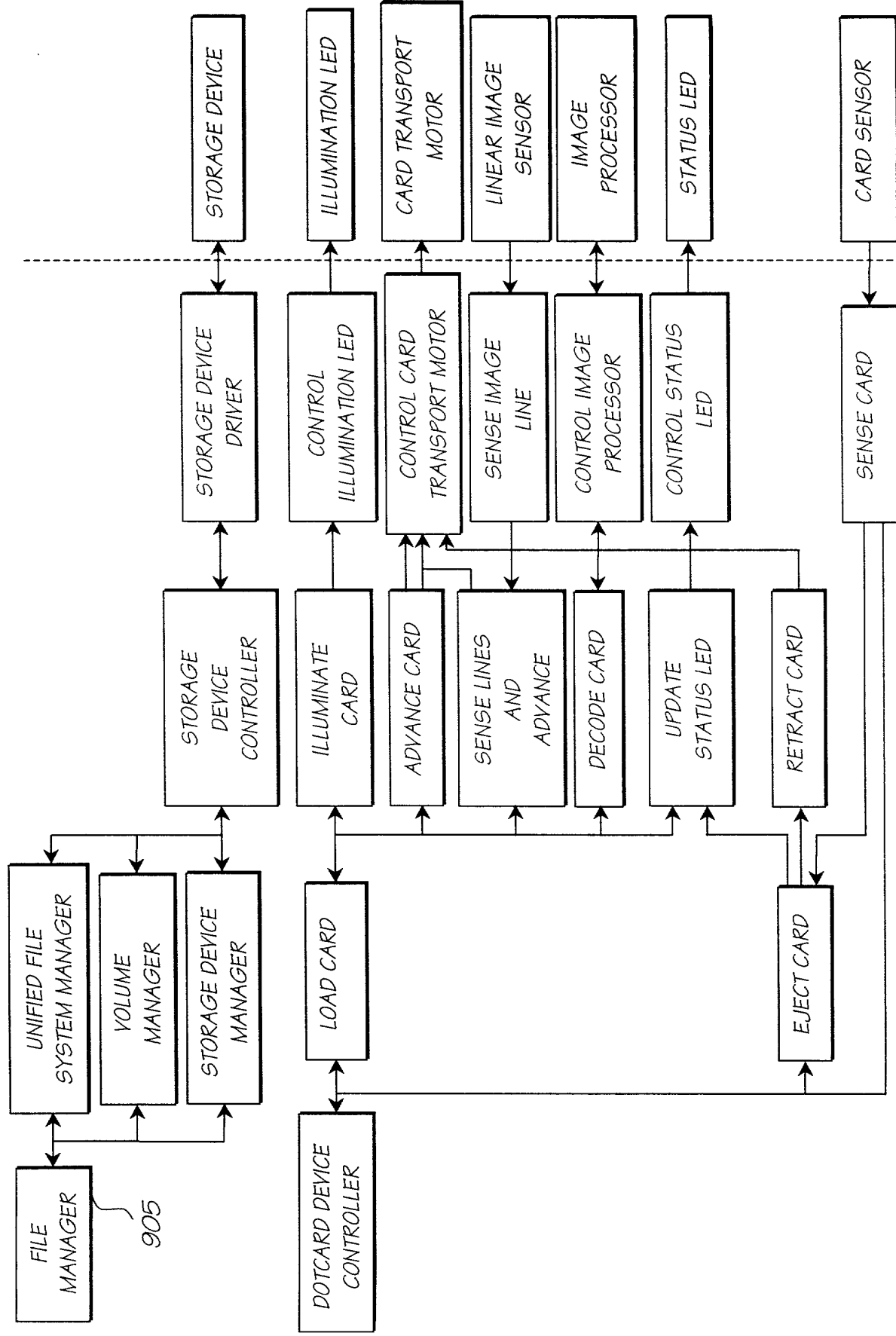


FIG. 226

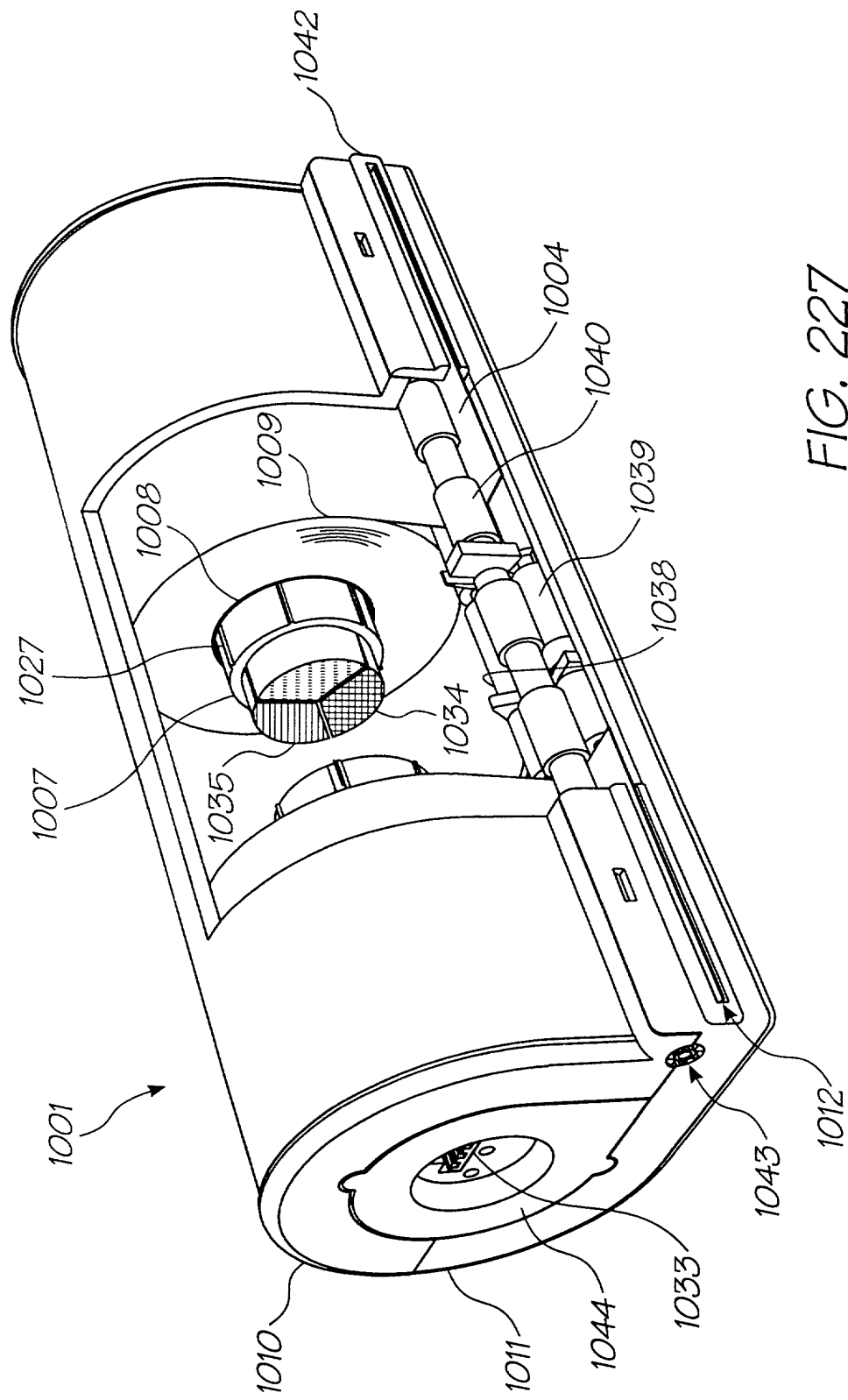


FIG. 227



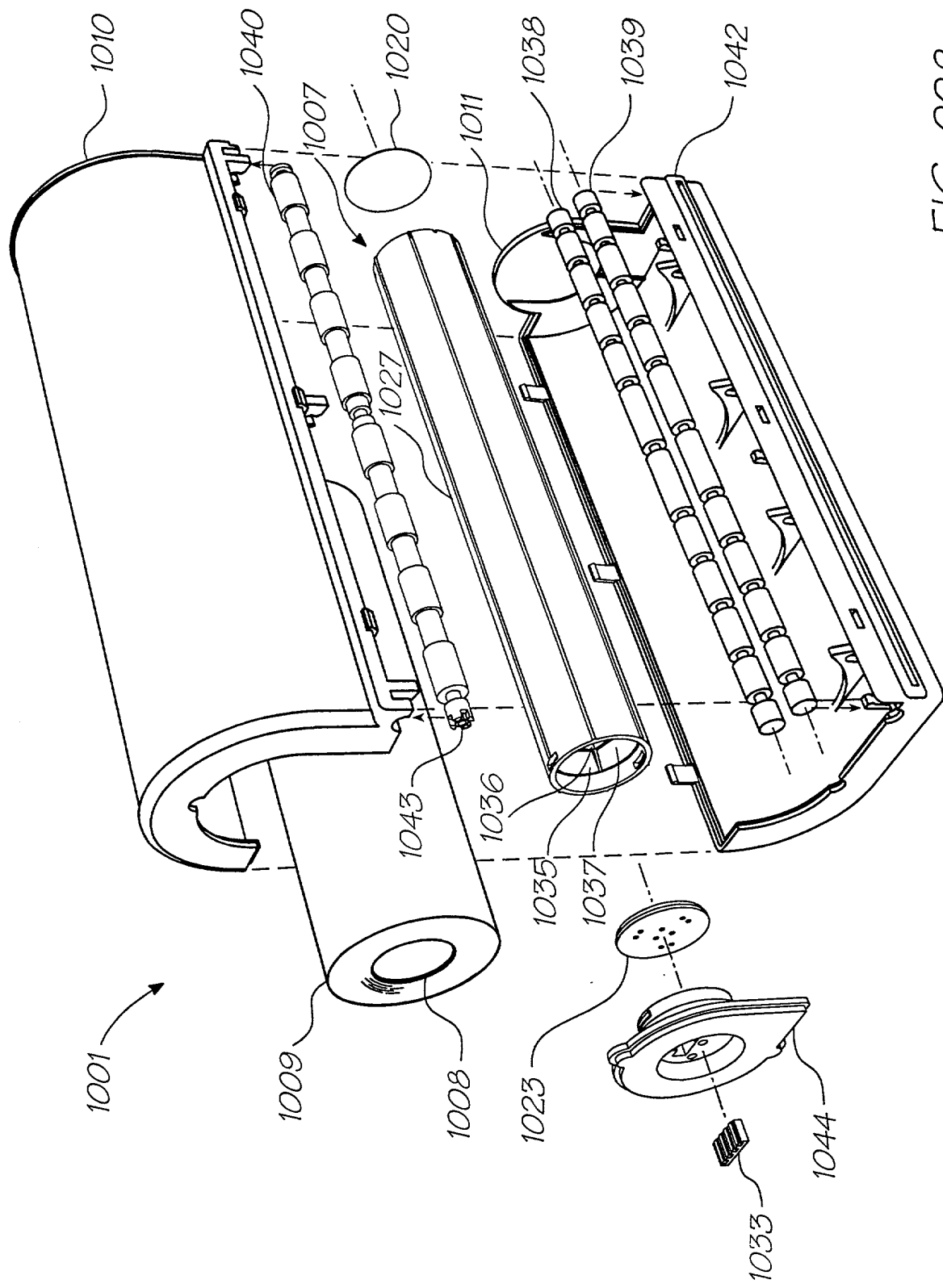


FIG. 228

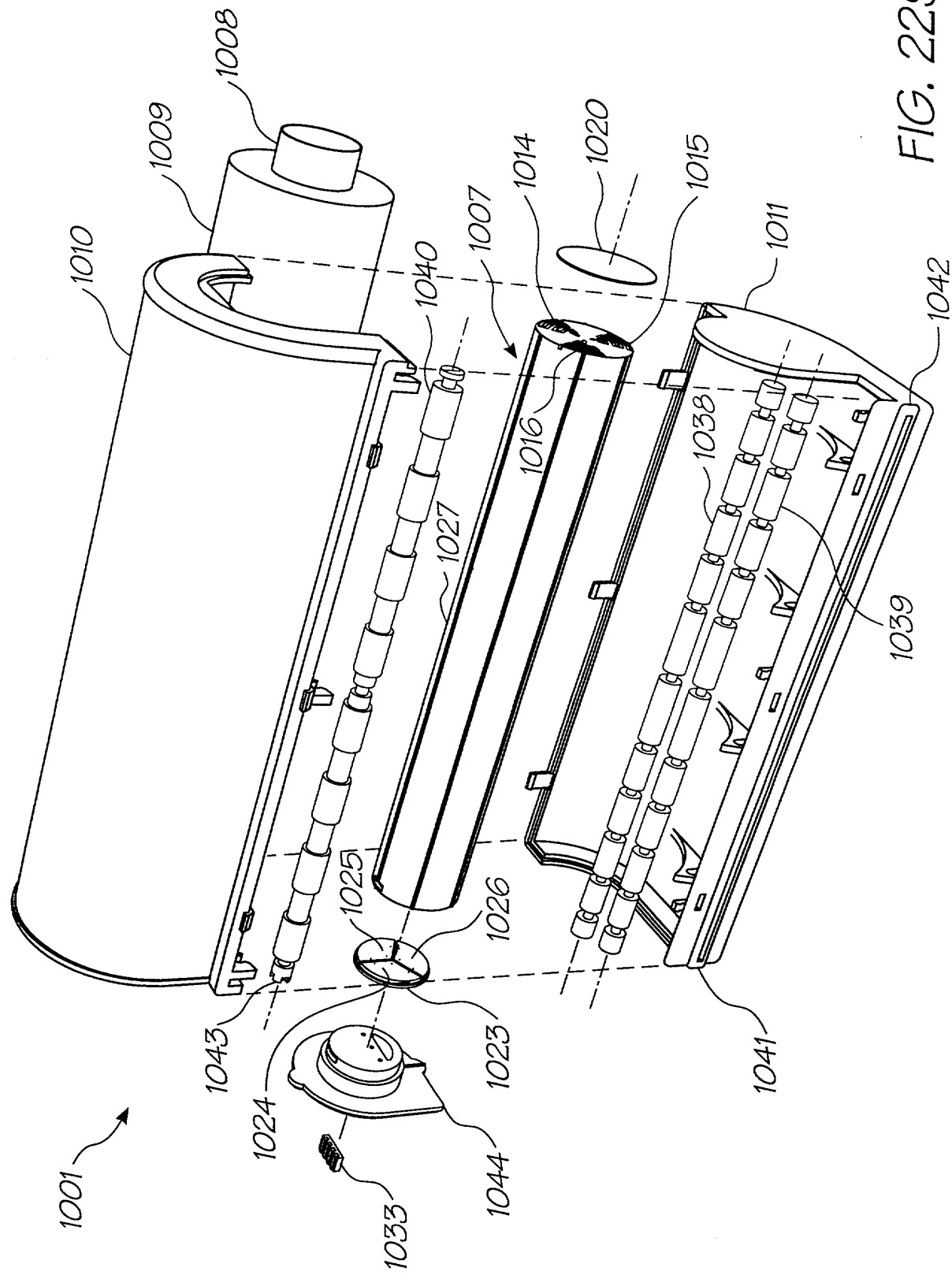


FIG. 229

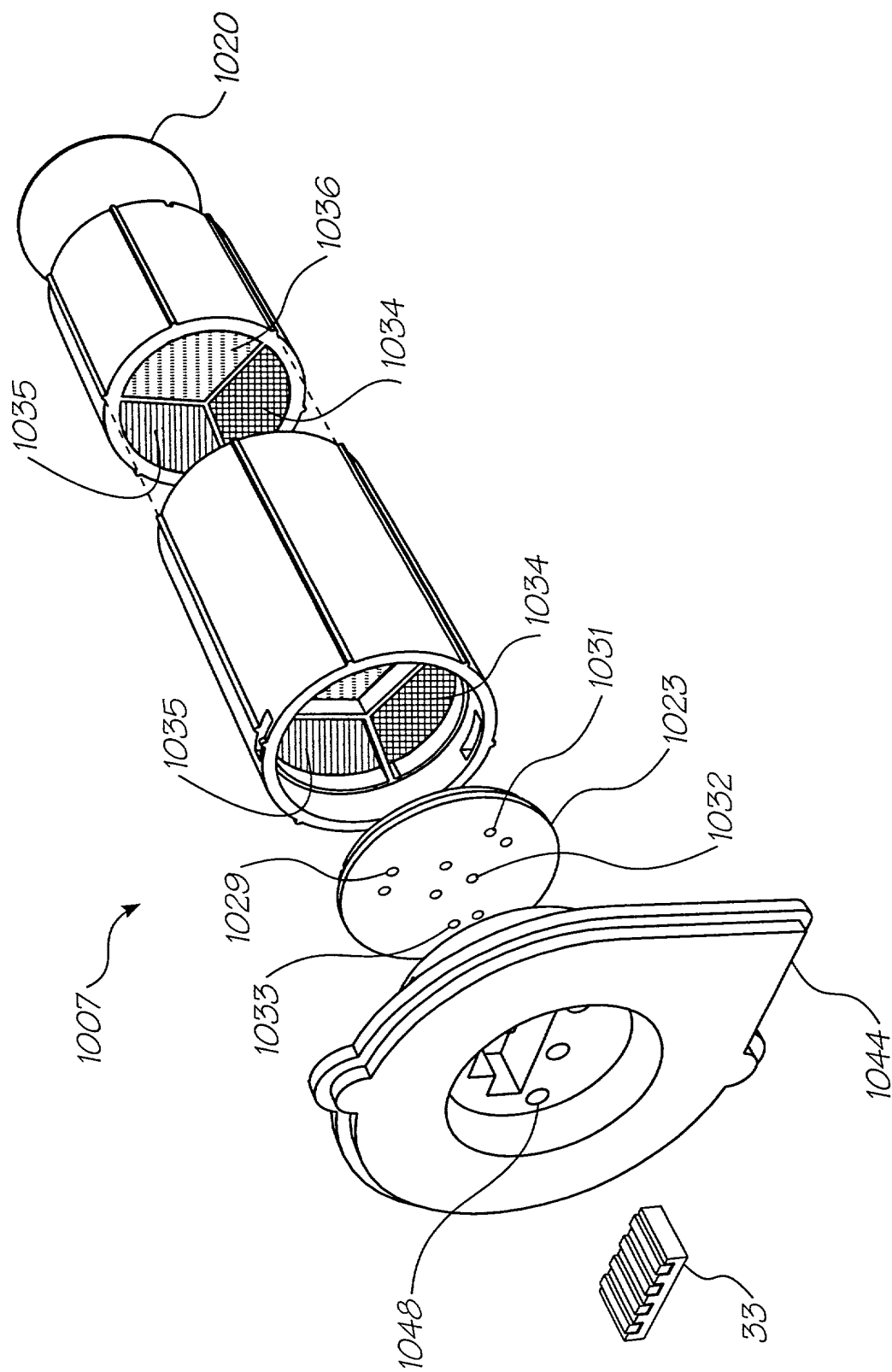


FIG. 230

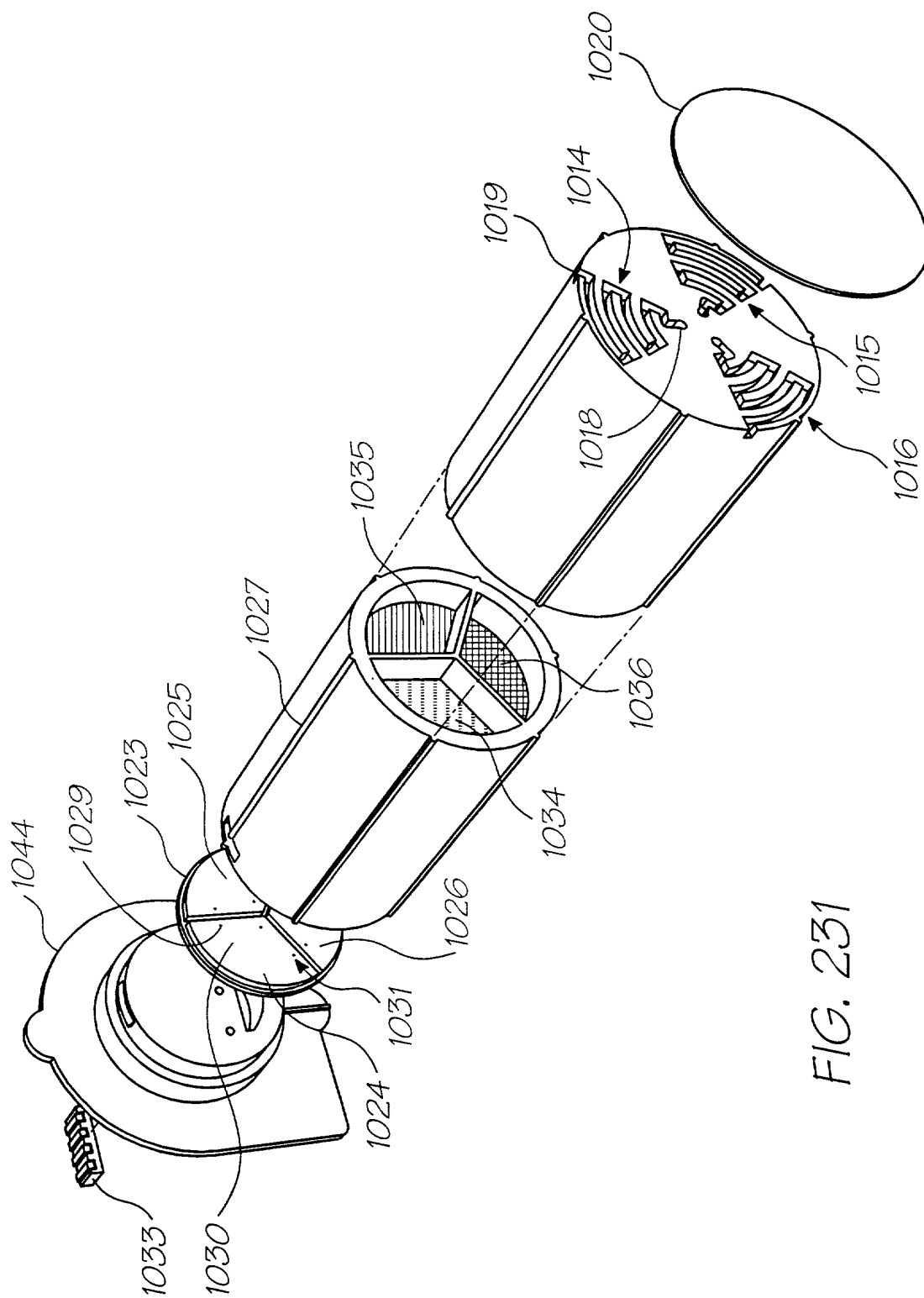


FIG. 231